

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

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KB9UE: You Can't Keep a Good Man Down!



(L to R): Jim Merrell, W9AYK; Andy, KB9UE, (hospitalized for surgery); Bob Stockfish, AA9EF; and Larry Puza, WB9BVB, gather around while Andy chats with another amateur friend on a repeater. Read more about the remarkable KB9UE on page 8 of this issue.

- Photo by Les Peterson/W9YCV

CALLS ATTENTION TO FLAWS, POSSIBLE EASY ABUSE

Madison VE Team Leader Files Comments on FCC's "Instant Licensing" Proposal

(Editor's note: Mark Jenks, NZ9B, Madison Volunteer Examiner Team Leader, filed comments on the FCC's Notice of Proposed Rule Making, 93-267, which would provide immediate, temporary licenses for applicants who qualify for their first Amateur Radio license. Here are his comments on the Commission's proposal.)

As a(n) Amateur Volunteer Examiner team leader in Madison, Wisconsin, I would like to offer my comments and suggestions to the proposed rule making (PR Docket

93-267), regarding instant amateur licensing, I agree that instant licensing is a laudable goal, but I see a major problem in the current proposal.

The main reason for a station having call letters is to provide identification of that station when it is found in violation of FCC regulations. With the current proposal this cannot be done. If the VE is to be required to send in the temporary authorization along with the form 610, the FCC will have a period where they are in the dark as to who is using that call equal to the present processing

Please turn to page 4

Pick Your Call Sign

New FCC Equipment Will Make it Possible

The FCC today proposed that amateurs be able to choose their own call signs, once a new automated processing system is in place at the Commission's Private Radio Bureau.



Under the proposed system, amateurs wishing to apply for an available call sign would be required to file a form and pay a fee.

Trustees of club and military recreation stations also would be eligible for the new program. Also today, The FCC canceled a rule it adopted last summer establishing a call sign administrator program for amateur club and military stations, a program that was never implemented.

The FCC said that at the present time call sign selection by new licensees was not feasible, but left the door open for that possibility in the future.

The FCC said that the new PRB computer might eventually allow amateurs to check for themselves the availability of call signs, and that the new system might be used to allow electronic filing of applications, making the process easier for applicant and FCC alike.

At the meeting today, the first under new FCC Chairman Reed Hundt, Private Radio Bureau staff began by telling the FCC commissioners that recent Nobel Prize winners Joseph Taylor and Russell Hulse had begun their scientific education as radio amateurs.

The "vanity" call sign plan was unanimously approved by the four FCC commissioners. The text of the Notice of Proposed Rule Making is not yet available but is expected to be issued shortly.

- ARLB116, 12/13/93

Happy New Year!

ON THE INSIDE



What's Happening	2
Wisconsin Nets Association	4
Here and There	5
Rechargeable Alkaline Batteries: Not Quite There Yet!	6
The Computer Corner	7
FCC, VECs Cooperate, Investigate Exam Sessions	9
The Old Goat	9
Riverland Amateur Radio Club	10
Washington County Amateur Radio Club	10
Watts Snoo (Central Wisconsin Radio Amateurs)	10
Racine Megacycle Club	11
Taylor County Area Amateur Radio Club	11
QCWA Southern Wisconsin Chapter 162	12
Northern Wisconsin Radio Club	12
ManCoRad Radio Club	12
Sheboygan County Amateur Radio Club	12
Eau Claire Amateur Radio Club	12
The Wisconsin Packeteer	14
Yellow Thunder Amateur Radio Club	15

ELMER

By Rich Regent, K9GDF



Badger State Smoke Signals

What's Happening

♦ Swapfests and Other Social Events ♦ Club Meetings ♦ Amateur Radio Exam Schedules

Edited by Kenneth A. Ebner, K9EN • 822 Wauona Trail • Portage, WI 53901

Swapfests and Other Social Events

SUNDAY, JANUARY 9, 1994. WARAC 22nd annual Midwinter Swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Free coffee and donuts until 9:00 a.m. Amateur Radio exams. Admission: \$3.00 advance or \$4.00 at the door. Tables (4 ft) \$4.00 or \$5.00 at the door. Electrical outlet: \$5.00 (if available) Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI 53201-1072.

SUNDAY, JANUARY 30, 1994. Wheaton Hamfest. The Odeum Exposition Center, Villa Park, IL. Contact: WCRA, PO Box QSL, Wheaton, IL 60189.

SUNDAY, MARCH 20, 1994. Tri-County Hamfest, Jefferson, WI. Contact: TCARC, WISQB, 213 Frederick, Fort Atkinson, WI 53538. (414) 563-6381 (evenings).

SUNDAY, APRIL 10, 1993. 22nd Annual MARA swapfest held at the Dane County Exposition Center Forum Building in Madison, WI. Contact: MARA PO Box 8890, Madison, WI 53708-8890., or call Jim Waldorf, KB9AQQ (608) 249-7579.

SUNDAY, APRIL 17, 1994. Rockford, IL Hamfest. Contact P.O. Box 6931 Rockford, IL 61125 (815) 399-6995.

SUNDAY, MAY 1, 1994. Burlington, IA Hamfest. Contact: Burlington Hamfest "94", c/o NZDUP, PO Box 911, Burlington, IA 52601-0911.

SATURDAY, MAY 7, 1994. The Ozaukee Radio Club will sponsor its Sixteenth Annual Cedarburg Swapfest at the Circle-B Recreation Center, Highway 60 and County I. Contact: ORC Swapfest Chairman, W70 N1018 Hampton Court, Cedarburg, WI 53012. (414) 377-7468.

SATURDAY, JULY 9, 1994. South Milwaukee Swapfest at Oak Creek, WI. Contact: SMARC, P.O. Box 102, South Milwaukee, WI 53172. (414) 762-3235 ext. 58.

SUNDAY, JULY 31, 1994. Racine Hamfest, Racine, WI. Contact RMC, PO Box 3, Racine, WI. (414) 554-7565.

SEPTEMBER 17-18, 1994, Super Fest, Peoria, IL.

SATURDAY, NOVEMBER 6, 1994. FRIENDLYFEST, Milwaukee, WI. Contact MRC, Inc. PO Box 37991, Milwaukee, WI 53237-0991.

See also the back page and flyers ads for addition information about many of the above events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the December 1993 meetings column for the latest complete listing. The following are additions or changes since that listing.

OSHKOSH AMATEUR RADIO CLUB

The club is attempting to reestablish after several years with no activity.

The first meeting will be held on Sunday, January 16, 1994 at 5:50 p.m. Third Sunday every month thereafter at 5:30 p.m. until further notice.

The meetings will be held at the Omro City Hall, on Webster Street. All Amateurs and other persons interested in radio are welcome.

For further information contact KB9IME (414) 233-7145.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: Scheduled meeting dates:

Jan. 14, 1994

All meetings, at the Baraboo Civic Center, Baraboo, WI. Meetings start 7:30 p.m.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

January 8, 1994	Madison, WI
January 8, 1994	Oak Creek, WI (MRAC)
January 9, 1994	Waukesha, WI (Midwinter Swapfest)
January 15, 1994	Eau Claire, WI
January 15, 1994	Park Falls, WI
January 15, 1994	Milwaukee, WI (BE)
January 19, 1994	West Allis, WI (MRAC)
January 22, 1994	Appleton, WI
January 29, 1994	Wauwatosa, WI (MRAC)
February 12, 1994	Madison
February 12, 1994	Oak Creek, WI (MRAC)
February 16, 1994	West Allis, WI (MRAC)
February 19, 1994	Milwaukee, WI (BE)
February 19, 1994	Dubuque, IA
February 26, 1994	Wauwatosa, WI (MRAC)
March 12, 1994	Madison, WI
March 12, 1994	Oak Creek, WI (MRAC)
March 16, 1994	West Allis, WI (MRAC)
March 19, 1994	Appleton, WI
March 26, 1994	Wauwatosa, WI (MRAC)
March 26, 1994	Menomonie, WI
April 9, 1994	Madison, WI
April 9, 1994	Oak Creek, WI (MRAC)
April 13, 1994	West Allis, WI (MRAC)
April 16, 1994	Eau Claire, WI
April 17, 1994	Rockford, IL (RARA Hamfest)
April 30, 1994	Wauwatosa, WI (MRAC)
May 7, 1994	Manitowoc, WI (Lakeshore Hamfest)
May 7, 1994	Cedarburg, WI (ORC Hamfest)
May 14, 1994	Madison, WI
May 14, 1994	Oak Creek, WI (MRAC)
May 18, 1994	West Allis, WI (MRAC)
May 28, 1994	Wauwatosa, WI (MRAC)
May 28, 1994	Dubuque, IA
June 11, 1994	Appleton, WI
June 11, 1994	Madison, WI
June 11, 1994	Oak Creek, WI (MRAC)
June 15, 1994	West Allis, WI (MRAC)
June 25, 1994	Wauwatosa, WI (MRAC)
July 9, 1994	Madison, WI
July 9, 1994	Oak Creek, WI (MRAC)
July 9, 1994	South Milwaukee, WI (SMARC Hamfest)
July 20, 1994	West Allis, WI (MRAC)
July 22, 1994	Eau Claire, WI (ECARC Hamfest)
July 23, 1994	Eau Claire, WI (ECARC Hamfest)
July 30, 1994	Wauwatosa, WI (MRAC)
August 13, 1994	Madison, WI

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the

material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebner.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner.

Swapfest information should be sent to Ken Ebner. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN. This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

August 13, 1994 Oak Creek, WI (MRAC)
 August 17, 1994 West Allis, WI (MRAC)
 August 20, 1994 Dubuque, IA
 August 27, 1994 Wauwatosa, WI (MRAC)
 September 10, 1994 Madison, WI
 September 10, 1994 Oak Creek, WI (MRAC)
 September 17, 1994 Appleton, WI
 September 21, 1994 West Allis, WI (MRAC)
 September 24, 1994 Wauwatosa, WI (MRAC)
 October 8, 1994 Madison, WI
 October 8, 1994 Oak Creek, WI (MRAC)
 October 19, 1994 West Allis, WI (MRAC)
 October 29, 1994 Wauwatosa, WI (MRAC)
 November 5, 1994 Menomonie, WI
 November 6, 1994 Kaukauna, WI (Hamfest)
 November 12, 1994 Madison, WI
 November 12, 1994 Oak Creek, WI (MRAC)
 November 16, 1994 West Allis, WI (MRAC)
 November 19, 1994 Dubuque, IA
 November 26, 1994 Wauwatosa, WI (MRAC)
 December 10, 1994 Madison, WI
 December 10, 1994
 December 21 1994 West Allis, WI (MRAC)
 Monthly, 1st Sat. Racine, WI
 (except January, July & August)
 Monthly, 2nd Sat. Madison, WI
 Monthly, 2nd Sat. Oak Creek, WI (SWAT/MRAC)
 Monthly, 3rd Wed. West Allis, WI (MRAC)
 Monthly, 3rd Sat. Loves Park, IL
 Monthly, Last Sat. Wauwatosa, WI (MRAC)
 (except December)
 Monthly, Last Sat. Tomahawk, WI
 (January thru October only)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

OAK CREEK, WI (SWAT-MRAC/VEC)

SECOND SATURDAY DATES: 1:00 p.m. at Wauwatosa Savings and Loan Branch, 6560 S. 27th St., Oak Creek, WI. (MRAC/VEC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. at Park Manor, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 8:30 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-

INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

January 15, and February 19, 1994.

Unless otherwise noted, examinations are administered beginning at 9:00 a.m. to Noon, at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available now will be FCC General Radio Telephone Commercial exams. Fees are \$5.75 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. Take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.75, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, N29B

EAU CLAIRE, WISCONSIN

January 15, and April 16, 1994 at St. Olaf Parish School, North Lane, Eau Claire, WI. Please arrive by 11:00 so that we may finish by noon.

July 22 & 23, 1994 at the ECARC Hamfest, Northern Wisconsin State Fairgrounds, Chippewa Falls, WI.

MARSHFIELD, WISCONSIN

Sponsored by the Marshfield Area ARS. Second Saturday every other month, at St. Joseph Hospital, School of Nursing entrance. Room 124. St. Joseph Ave., Marshfield, WI. Walk-ins Welcome. Contact Walter Friant, WBOKIN, 2310 Wal-lonnie Dr., Marshfield, WI 54449. (715) 387-3870

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be sent to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

RACINE, WI - BIG BOY TOY SHOW

RHINELANDER, WI - NWARC SWAPFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

EAU CLAIRE, WI - ECARC HAMFEST

SOUTH MILWAUKEE, WI - SMARC HAMFEST

CEDARBURG, WI - ORC HAMFEST

ROCKFORD, IL - RARC HAMFEST

See the Swapfest column for additional information and contact persons.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Northern Wisconsin RC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, N9XF. Work: (715) 232-1397, Home: (715) 235-3998.

RIVER FALLS, WI

Contact: Chuck Kelly, KA9YRV, (715) 425-2428.

GREAT RIVER AMATEUR RADIO CLUB

DUBUQUE, IOWA - ARRL/VEC

Amateur examinations will be held on Feb. 19, May 28, Aug. 20 and Nov. 19 in 1994.

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

Contact: Arthur A. Evans, KA9KLZ, 213 N Jefferson St., Cuba City, WI 53807-1558, (608) 744-2704

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (Great Lakes ARC VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Paul K. Dean, WB9HGZ, (815) 987-6754.

Out of State Exams

Information Provided
by the ARRL/VEC



ALL DATES 1994

NORTHERN ILLINOIS

01/12, Chicago, 312-465-0981, Michael Leibovitz
 01/13, Antioch, 708-395-0999, Anthony Viverito
 01/18, McHenry, 815-678-4276, Jack Hudson
 02/10, Antioch, 708-395-0999, Anthony Viverito
 02/12, Dixon, 815-284-6380, Charles W Randall
 03/10, Antioch, 708-395-0999, Anthony Viverito
 04/14, Antioch, 708-395-0999, Anthony Viverito
 05/12, Antioch, 708-395-0999, Anthony Viverito
 06/09, Antioch, 708-395-0999, Anthony Viverito
 07/14, Antioch, 708-395-0999, Anthony Viverito
 08/11, Antioch, 708-395-0999, Anthony Viverito
 09/08, Antioch, 708-395-0999, Anthony Viverito
 10/13, Antioch, 708-395-0999, Anthony Viverito
 11/10, Antioch, 708-395-0999, Anthony Viverito
 12/08, Antioch, 708-395-0999, Anthony Viverito

EASTERN IOWA

01/23, Davenport, 319-355-5517, Roger Franke
 02/19, Dubuque, 319-557-9149, Carl E Clark
 03/27, Davenport, 319-355-5517, Roger Franke
 05/28, Dubuque, 319-557-9149, Carl E Clark
 08/20, Dubuque, 319-557-9149, Carl E Clark
 11/19, Dubuque, 319-557-9149, Carl E Clark

UPPER MICHIGAN

01/08, Houghton, 906-337-2542, George R Thurner
 04/09, Houghton, 906-337-2542, George R Thurner
 07/09, Houghton, 906-337-2542, George R Thurner
 10/08, Houghton, 906-337-2542, George R Thurner

(continued on page 15)

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Milwaukee RAC has repeater on 147.045 MHz. BM WB9JSW reports 9 OBS with AA9GZ of Marinette the latest.

New Green Fox ARC officers: Pres. N9PXN; V.P. N8DBP; Treas. N9TXS; Sec'y KE9EJ.

Green Bay Mike and Key Club adopts a 2-mile section highway program as a public service.

You can reach Amateur Electronic Supply BBS by calling (414) 358-3472.

Rock River RC will have Novice and Technician classes start January 20 for 10 weeks.

Fox Cities ARC will have repeater program at February 17th meeting.

Don't miss the Northern Wisconsin RC Auction on February 22 at 7 p.m., 643 Water Street, Eau Claire, contact KA9OMC for details.

To learn more about how to become prepared for emergency communications, please contact our Section Emergency Coordinator, WB9SMM, in

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	WA9OAY
(LSB Sunday)					

Milwaukee.

Exams: February 5 Racine; 12 Madison and Marshfield; 19 Milwaukee; and 26 Tomahawk.

Sorry to report Silent Keys KE9GK, W9GSS, W9NNU, and W9MZZ.

Thought for the month: *Whichever way you turn upon entering an elevator, the buttons will be on the opposite side.* □

1994 Wisconsin QSO Party

1800Z March 13
through 0100Z March 14

(12 Noon through 7 p.m. CST
Sunday, March 13)

Entries will be due by March 31

Full rules and an official entry form will be published in February BSSS, or you may write the sponsoring club.

The Wisconsin QSO Party is sponsored annually by the West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53201.

NZ9B Comments on "Instant Licensing"

Continued from front page

time for a new license. This should be considered unacceptable.

The agreed upon goal is to allow some form of instant licensing, but the current proposal inhibits the Commission's ability to enforce regulations during the processing times. I would like to offer a suggestion on how the proposal could be modified to fulfill the the stated goal and yet keep the Commission's enforcement abilities intact.

Rather than have individuals be assigned calls using their own initials, in what amounts to a random selection; I would propose an organized system where blocks of calls are assigned to each VEC. Each VEC would assign blocks of calls to each established local VE team. These calls would be reused every 120 or more days. Under this system, the FCC would be able to find the address of the holder of anyone using a particular temporary call with only two telephone calls. If a violation of the rules is monitored they would simply call the appropriate VEC to receive the phone number of the local VE team leader, who could in turn give them the address of the violator. With this system (or one similar) licenses can be dispensed instantly and there will be no reduction in enforcement ability.

I would further propose that to make things simpler for monitor stations, that each VEC be assigned be assigned a different prefix. For example, W5YI could have the calls WY#AAA to WY#ZZZ, the ARRL could have the block of WZ#AAA to WZ#ZZZ, etc. This way the monitors won't have to take time to look up which VEC would have which group from only the suffixes. It should simplify their task.

To further simplify the task of the monitors, I would further propose that those temporary calls issued to examinees who qualify for a first time license of general, advanced or amateur extra class be assigned a 2X2 call. (ex. WZ9AA). The numbers of people who qualify for one of these classes of license as their first license is very small, but potential pirates would be drawn to the HF bands in larger numbers. If all new temporary licensees have the same 2X3 style call, it will be hard to tell violators apart from those who can operate those bands legally. If they are assigned a 2X2 call, a monitor will know at a glance if they are allowed operation on those frequencies.

As a local VE team leader, who has discussed this with the other VEs in Madison, WI, we would like to go on record as supporting the concept of instant licensing, but strongly oppose the proposal as it presently stands. □

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ARL SIXTY - NEW YEARS DAY



The minutes of the December WNA Meeting are on page 12 of this issue.

TRI-COUNTY ARC PRESENTS

HAMFEST 1994

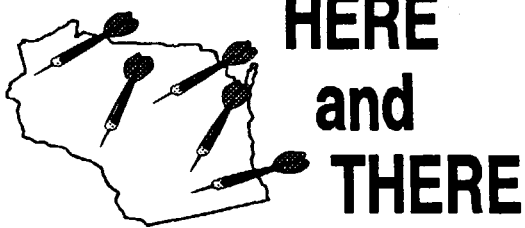
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FCC-Issued Call Sign Update

The following is a list of the FCC's most recently issued call signs as of December 1.

DISTRICT	GROUP A EXTRA	GROUP B ADVANCED	GROUP C TECH/GEN	GROUP D NOVICE
0	AA0PO	KG0KD	N0ZPM	KB0LMX
1	AA1IB	KD1SQ	N1QWR	KB1BEQ
2	AA2QQ	KF2SX	N2XFU	KB2QQJ
3	AA3GP	KE3LH	N3QZL	KB3AZK
4	AD4NS	KR4IY	++	KE4HYT
5	AB5RK	KJ5TG	++	KC5EIK
6	AB6YW	KN6VX	++	KE6DOF
7	AB7AI	KI7TW	++	KB7ZRB
8	AA8NJ	KG8FM	++	KB8QOW
9	AA9JM	KF9SP	N9VPC	KB9IWA
HAWAII	++	AH6NE	WH6QL	WH6CRB
ALASKA	++	AL7PL	WL7OW	WL7CMJ
VIRGIN IS.	WP2D	KP2CC	NP2GU	WP2AHU
PR	++	KP4VZ	++	WP4MLZ

++ All call signs in this group have been issued in this area.

- ARRL Bulletin 117, 12/20/93

New Club Organized

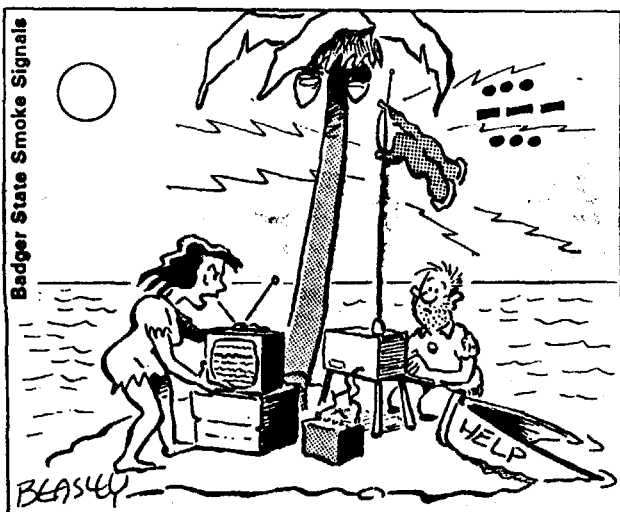
On December 11, 1993, the Northeast Wisconsin DX Association (NEWDXA) was formed. Twenty-one DXers from all over northeast Wisconsin met in Appleton to organize this club. The purpose of NEWDXA is to foster cooperation between members, to promote radio knowledge, fraternalism, and individual operating efficiency, and to so conduct association programs and activities as to advance the general interest and welfare of Amateur Radio and Amateur Radio DXing throughout Northeast Wisconsin.

Looking to the future, NEWDXA hopes to contribute to DXpeditions, perhaps help as QSL managers for DXpeditions, and have ARRL Field Representatives appointed for field checking of QSLs in Northeast Wisconsin for DXCC credit.

Full membership in NEWDXA will be given to amateurs holding a DXCC certificate and working toward endorsements. Membership in the ARRL is also required. (Both will eventually help qualify the club for ARRL Field Representatives, mentioned above). Associate memberships (non-voting) will be granted to amateurs working toward DXCC. Membership is *not* limited to residents of northeastern Wisconsin. Anyone interested in fostering DXing is welcome.

NEWDXA meetings will be held quarterly, and will be in different locations around northeast Wisconsin to facilitate travel for members to outlying areas. Meetings will consist of a short business meeting, lunch or dinner, and a program—usually videos from DXpeditions.

The next meeting will be held on Saturday, January 29, 1994, at 11 a.m. at the Bay Family Restaurant, 1301 South Military Avenue, Green Bay. The program will be the video "The Spirit of Victory", PJ9W (Radio Team Finland).



The NEWDX Association Board of Directors is as follows: President George Croy, W9MDP; Vice-President John Meyer, NZ9Z; Secretary/Treasurer Jack Bigelow, KA9JOL; and Membership Coordinator Jim Promis, WY9E.

The NEWDXA Newsletter can be had from Jack, KA9JOL, or can be found on the AA9A and KD9BC DX nodes, as well as several local BBSs.

For more information about NEWDXA, contact Jim, WY9E (3745 Rolling Heights, Oneida, WI 54155).

- John Meyer, NZ9Z

SAREX Shuttle Flight Set for Late January

The next shuttle SAREX flight, STS-60, is scheduled for January 27, 1994. Several members of the six-man crew are studying for amateur licenses. Mission Specialist Sergei Krikalev is a veteran of the Russian MIR space station, and has swapped his UZ3AK call sign for U5MIR. Whether or not he will be able to operate from space still has not been settled.

Four U.S. and one Russian school have set schedules with STS-60. SAREX Configuration C is planned, allowing robot packet mode for most of the flight, with voice operation by the crew as time permits.

- The ARRL Letter, 11/29/93

Talking With the Shuttle: The Tractor Factor

Troy Fehring, N5VIN, worked the space shuttle from his tractor in late October, the *Lawton (Oklahoma) Constitution* reported. Fehring, of Sterling, Okla., was baling hay at the time the shuttle, *Columbia*, came overhead, but admitted he'd "been listening for them."

Fehring told the paper "I didn't have anything to write on, so I jumped out of my tractor, took my screwdriver and scratched it on my toolbox so I wouldn't forget" the time and frequency.

The contact was on FM, with astronaut Bill McArthur, KC5ACR. The story was written by *Constitution* writer Mitch Meador.

- The ARRL Letter, 11/29/93

License Renewals to Begin Again in 1994

Have you look at the expiration date on your FCC license lately? Five years ago, the term of an FCC amateur license went from five years to 10. So, for the past five years, no licenses have expired. Licenses are now beginning to expire again, which means that *it may be time for you to renew*.

It's a good idea to renew at least 60 days before the expiration date on your current license. Use an FCC form 610, available from ARRL Headquarters (225 Main Street, Newington, CT 06111). If you submit a timely renewal application, you may continue to operate, even if the FCC doesn't act on the application by the expiration date. If your renewal is late, you must stop operating until your new license arrives.

Licenses that have expired for more than two

Silent Key

FRED F. RUSSELL, W9MZZ, 80, of Milwaukee, died on November 29, 1993. An active amateur, Fred was a member of the American Radio Relay League. He was also a former Scoutmaster and a Boy Scout Leader Trainer.

- Submitted by Richard Regent, K9GDF

years may not be renewed, which means you lose your call sign and will have to take the exam again. *Don't take a chance - check your license expiration date now!*

- The ARRL Letter, 12/14/93

13-Year-Old Massachusetts Amateur Still Missing

13-year-old Nathan A. Taylor, WZ1W, of Gardner, Massachusetts, is still missing after disappearing on August 27.

According to Gardner police, Nathan left of his own volition apparently under the influence of unidentified adults. Amateurs in Tennessee and Texas in particular are asked to keep his disappearance in mind; although an Extra Class amateur, Nathan's most recent interest has been in computers.

At least two agencies of the federal government are now involved in the search for Nathan. Anyone with information on Nathan is asked to call Detective Bill Grasmuck of the City of Gardner (Mass.) Police Department at (508) 632-5600.

- The ARRL Letter, 12/14/93

RF Radiation Environmental Guideline Docket Comment Date Extended by FCC

The FCC has extended to January 11 the comment period in ET Docket 93-62, which proposes to adopt new guidelines for evaluating the environmental effects of RF radiation, based on petitions for more time from CBS and ABC.

The new guidelines would parallel those adopted in 1992 by the American National Standards Institute (ANSI) and would impose stricter limitations on low-power devices such as hand-held transceivers and portable and cellular telephones.

- The ARRL Letter, 12/14/93

Cellular Phone Hackers

Curious about the Motorola in December *QST* (and which also appeared in October, the one that says "ATTENTION, Public Safety Announcement)? According to Motorola, the ad is aimed at lawbreakers known in the industry as "cellular phone hackers" who can bill calls to other numbers by breaking cellular codes.

Books are actually available on how to do this, and are advertised in some magazines (but *not*

Please turn to page 7

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9401

Testing "Renewal" Rechargeable Alkaline Cells

By Dave Mullenix, N9LTD
2502 Brentwood Parkway
Madison, WI 53704

(This is based on an article that originally appeared in Smoke Test, the newsletter of MARA, the Madison Area Repeater Association.)

If you're a typical ham, you have at least one hand held transceiver. If it's a typical HT, it's powered by nickel-cadmium batteries. Ni-Cads are great batteries. They can supply huge amounts of current, they can be recharged easily and in theory at least, they can be recharged hundreds of times. They also have a nice flat discharge curve, which means that their voltage stays almost constant from the moment you take them off the charger until the moment they die, which is usually in mid QSO.

They also have some major shortcomings: they're heavy, the total power in a cell is fairly low, they have poor shelf life and they can be finicky about recharging. Cadmium is also a toxic metal and dead Ni-Cads are considered to be hazardous waste.

Despite those shortcomings, there haven't really been any serious competitors to Ni-Cads until now. This may change soon as several new battery technologies are coming to market. Wisconsin's own Rayovac is leading the pack with the introduction of its Renewal line of rechargeable alkaline batteries.

Alkaline batteries have some important advantages over Ni-Cads. First, they're lighter and they put out more total power than a similar sized Ni-Cad. Alkaline cells also have a higher voltage per cell, 1.5 volts, compared to 1.25 volts for a Ni-Cad. Except for a trace of mercury, there are no hazardous chemicals in an alkaline cell. Alkaline cells also hold a charge for years, while Ni-Cads tend to self discharge in weeks or months.

One characteristic of alkalines can be an advantage or disadvantage, according to your requirements. Ni-Cads have the very flat discharge curve mentioned above - they keep an almost constant voltage until they run out of juice, at which time the voltage drops like a rock. This is good, because it means you get nearly full power until the very end, but it's also the cause of the famous, "Where did he go?" phenomenon, where a ham vanishes in mid-QSO when his Ni-Cads die without warning.

Alkaline cells have a sloping discharge curve - the voltage drops slowly and smoothly as you use them. This gives you plenty of warning before your batteries die, but it also means that you might only get half power during the last half of the discharge cycle.

You can't really say that either battery has the "best" discharge characteristics, it depends on what your application's needs - full power and an abrupt end or gradually declining power and plenty of warning before the juice runs out.

Conventional alkaline cells have one very significant disadvantage compared to Ni-Cads - they're non-rechargeable. Rayovac's new Renewal rechargeable cells aim to remove this disadvantage. One of the two battery packs for my HT is failing, so I was already thinking about getting new batteries. As soon as the Renewals hit the retail market, I decided to test them. My test protocol was simple: I put four AA penlight cells into a portable color LCD TV and ran the TV continuously until the picture disappeared. I then recorded the time and recharged the cells for the next test. The TV, a CASIO TV-470, draws 320 ma at 6 volts, about 2 watts. This is a moderate load for a

penlight battery, somewhere between receiving and transmitting on low power for an HT.

To get a baseline, I first ran 3 sets of regular alkaline batteries. The manufacturers and times (in hours and minutes) for these were:

Eveready:	3:50
Duracell:	4:00
Rayovac:	4:20

I then did the same with the Renewal rechargeable cells. Here are the times in hours and minutes that I recorded for the first 25 discharges. Note that the first discharge was for the cells as they came out of the package - unlike Ni-Cads, alkalines are delivered fully charged and don't have to be put in the charger before first use.

"Renewal" Rechargeable Alkaline Cells

Useable Time Over 25 Charge/Discharge Cycles

3:15	2:25	1:45	1:10	1:07
3:15	2:15	1:25	1:05	1:07
2:55	2:05	1:20	1:10	1:00
2:37	*:*	1:13	1:10	0:56
2:19	1:40	1:20	1:05	0:52

(*:* means I missed the end and didn't record a time.)

Although I discharged the batteries completely on each of these runs, the Renewals are not supposed to be plagued with the "memory" effect that reduces capacity in Ni-Cads that are recharged before they're completely dead.

I then purchased six fresh Renewal cells and a penlight battery holder and tested them in my HT, an Icom IC-24AT dual bander. In the first test, I turned the HT on and let it run in receive continuously with the volume set to a low, but audible setting. I keyed the rig for a couple of seconds every once in a while to see if it would still transmit. After 28 and a half hours, I noticed that the LCD display was dimming when I hit transmit and ended the test. The HT was still receiving nicely when I stopped.

Trying the same test with a freshly charged, but well used 600 ma-hour Ni-Cad battery pack, the HT ran 9 and a half hours before losing receive completely.

I then put the Renewals back in, attached a dummy load to the antenna jack and plugged in a speaker/mike. One rubber band on the microphone button later, I had the N9LTD Transmitter Test Facility up and running.

Before I give the results, a word to the new ham about transmitter testing: Dummy loads don't absorb ALL of your signal. I could clearly hear my HT's signal a block away on my mobile. The perceptive ham will immediately realize that it's a real bad idea to do tests like this on a repeater input frequency! You should also realize that if you key the transmitter with a rubber band on the PTT switch, you are effectively bugging yourself. Anybody with a 2 meter rig or scanner can hear everything going on in the room, so don't do these tests while arguing with your spouse - or while making up after an argument. For anything more than a quick and dirty test, whip up a dummy mike plug so you can transmit without enabling the microphone. Also, continuous high power is hard on a transmitter. (On low power, the HT's case barely got warm.)

OK, back to the test lab: Transmitting on low

power, I got these readings: (This was the second discharge for these batteries.)

Minutes	Watts	Minutes	Watts
Start	1.75	60	1.25
15	1.5	75	1.25
30	1.5	90	1.0
45	1.3	95	Blinking TX Light

I then tuned the radio to the local weather station, turned the volume to a moderate level and the radio received for another two and a half hours before distortion rose to objectionable levels. Plugging in the freshly charged, but well used 600 ma-hour Ni-Cad pack, I got these results:

Minutes	Watts	Minutes	Watts
Start	1.75	30	1.6
45	1.0	50	Blinking TX light

There wasn't enough power left to receive after this point.

Finally, since the local Radio Shack had a sale on its heavy duty 850 ma-hour Ni-Cads, I bought six of them and ran the transmit test again with these results:

Minutes	Watts	Minutes	Watts
Start	1.8	45	1.8
15	1.8	60	1.8
30	1.8	75	1.8

At 76 minutes, power started to drop and the TX light was blinking after 85 minutes. Again, there wasn't enough juice left to run the receiver at this point.

Prices: The Renewal batteries run about twice the price of top grade non-rechargeable cells and 1/2 to 1/3 the price of premium Ni-Cads. You also need a special charger. Rayovac makes a \$15.00 charger that handles 4 AA or AAA cells at a time and a \$30.00 charger that handles up to 8 batteries of any size at once. You'll also need to buy a penlight battery holder for your HT. Mine is probably typical and it cost \$20.00.

Conclusions: if you're presently using a lot of disposable alkaline batteries, you should look into the Renewal cells. You can get at least 3/4 of the power of disposable cells for the first three discharges and useful amounts of power for another 20 cycles. They can't quite replace Ni-Cads yet, because they can't be recharged enough times. Keep watching though, because this is new technology and their performance will undoubtedly improve.

I also recommend that you purchase a penlight battery holder for your HT. They're reasonably cheap and they give you a lot of flexibility. A fresh set of alkalines will run longer than a comparable Ni-Cad pack, whether you use Renewals or standard cells, and an instant "recharge" can be purchased at any store that sells penlight batteries. If you keep a dozen alkaline batteries in a drawer, you'll be able to operate for days in the event of a long duration power outage, such as an ice storm. And as rechargeable battery technology improves, you're ready to try anything that hits the market in an AA cell. □

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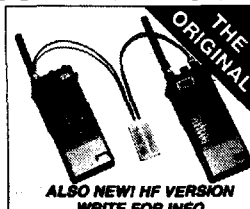
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The Computer Corner

By Stan Kaplan, WB9RQR
11541 North Laguna Drive
Mequon, WI 53092-3119

The number 7 is an interesting number. Over the ages, it has often been associated with magic and mysticism. This article is appropriately number 7 in the series because it deals with computer magic and a mystical property called virtual reality. Have you heard that term lately? Virtual reality describes a new area in which computer generated images mimic reality. The images turn as you turn, get closer as if you were approaching them, recede as if you were moving away from them, and so on. Just like reality but not real. Virtually real.

Well, this time, we are going to create a virtual disk. For all practical purposes, it acts just like any old garden variety floppy disk drive. You can copy files to it or from it, or even run programs on it. But it is a virtual disk and doesn't really exist as a physical entity. You can't take the floppy out of it, you can't format a floppy in it, you can't even do a DISKCOPY of it. Nevertheless, it is one of the most useful tools you can possess, even if you can't see it or get your hands on it!

Let me reflect at the outset that this is not one of those offbeat tools used only by a computer guru, after ferreting out information buried back in the pages of some dusty, little used technical manual. This tool is as basic as a wrench. When hard drives were so expensive that they were out of my reach - even at work - I did ALL of my work every day on a virtual drive. True, I copied my completed work to floppies, and I loaded files needing modification from floppies to my virtual drive, but 100% of my actual work activity was done on a drive that I could not touch or feel or see. My ex-boss, who recently moved to South Carolina, still uses a virtual drive he creates every day by booting with a disk I prepared for him. I tried to buy a hard drive for his computer a couple of years ago, but he wouldn't hear of it. His virtual drive meets all of his word processing needs.

We start with the same scenario as in the last article - you have purchased an XT laptop with 640k of memory but only one 360k, 5-1/4 inch drive. At \$35, it was a steal! You learned how to make image copies of entire disks last time using DISKCOPY.COM. Lets now fiddle with the CONFIG.SYS file on your boot disk to make that magical drive. (If you haven't already done so, now is the time to make an image copy of your original boot disk - then put away the original for safety).

We must assume that you have a file on the boot disk named RAMDRIVE.SYS if you are using MS-DOS, or VDISK.SYS if you are using IBM-DOS. Using any ASCII editor, add the following line to your boot disk's CONFIG.SYS file:

DEVICE=RAMDRIVE.SYS

(or DEVICE=VDISK.SYS for IBM-DOS).

Now save the file, and reboot. Voila! You probably saw the notification flash by on your screen. You now have a C drive with 64k of space! When RAMDRIVE.SYS is invoked as shown above during the boot process, it instructs DOS to create a drive using the next unused letter (C is the next unused letter, because DOS reserves both A and B for floppy drives, even if you have only a single drive). DOS then sets aside 64k (65,536 bytes) of the 640k CONVENTIONAL memory for use by C. Go ahead, log onto it. Type C: <ENTER>. If the prompt is correctly configured in your AUTOEXEC.BAT file (it should say PROMPT=\$p\$g), DOS will happily echo C:\> on your screen. Try copying a file to it. While logged onto C, type:

COPY A:CONFIG.SYS C:

Now do a DIR. You will see a copy of the file CONFIG.SYS happily residing on the C drive. How about that! You can just as easily copy files from the virtual drive to floppies.

Now, lets make maximum possible use of the virtual drive. First, let's increase its size a bit. Change the line you typed in your CONFIG.SYS file (on the floppy in A) to read as follows:

DEVICE=RAMDRIVE.SYS 128

Previously, you told DOS to set up a single virtual drive (RAMdrive), but you did not tell DOS how large you wanted it to be, so DOS assumed you wanted a 64k drive. This time, you have specified it's size - 128k. You can make it even larger, but BE CAREFUL. Whatever you set aside for the virtual drive is subtracted from the 640k of DOS memory. Don't even think of making a virtual drive much larger than about 240k, or there may not be enough memory left to run even the smallest program!

Now, for maximum usefulness, you need to modify your AUTOEXEC.BAT file as well. Again, use any ASCII editor. Type the following lines (carefully) at the end of the file:

COPY COMMAND.COM C:

SET COMSPEC=C:\COMMAND.COM

Here is what the lines do. The first line copies the all important COMMAND.COM file to the virtual drive. In a nutshell, COMMAND.COM is the traffic cop on the street by the stadium after the game. If he is doing his job, the stadium traffic will clear within a reasonable time. Without him, bedlam. Without COMMAND.COM, your system will hang and a reboot will be the only cure. So, just like the song says, You Gotta Have COMMAND.COM.

Having it is one thing, finding it is another. The job of the second line is to tell DOS where COMMAND.COM resides - on the virtual drive (C), and whenever it is needed, DOS should look for it there. Rest assured that DOS will look for it; parts of COMMAND.COM are loaded from disk more than just once during a computing session. For example, the internal command DIR is responded to by COMMAND.COM, as are COPY, DEL, REN, and a host of others.

There you have it. With these commands in your CONFIG.SYS and AUTOEXEC.BAT files, you can boot your machine, take out the boot disk and put it away, and copy files to your heart's content. Control has transferred from your boot disk to the virtual drive, C. About 48k of the 128k of space on C is occupied by COMMAND.COM, but the rest is yours to use as you like. For example, you could copy FORMAT.COM (about 33k in DOS 5) from any floppy to C, then log on to C, then give the DOS 5 command FORMAT A:/U to format one or 100 disks in the A drive. My boss's boot disk shoves a complete copy of WordStar onto the virtual drive, along with COMMAND.COM, freeing up both his floppy drives for use as data disks.

So, if you are going to use that "one-lung" machine for packet, fine! Create your own YAPP boot disk that shoves COMMAND.COM and all of the YAPP files onto a virtual drive. I promise you - there is enough memory in a 640k computer to do it - YAPP only takes about 140k of memory when running.

WARNING! Again, a caveat. When the power goes off, the magic disk disappears. Total and irrevocable amnesia. Copy anything new that you want to save to a floppy before you hit that switch, or it is lost forever, with absolutely no hope of recovery. On the other hand, here is an added value. Nothing, not even the fastest hard drive, is faster than a virtual drive (also called a RAM drive). No moving parts - just electrons. The blinding speed will quickly spoil you. 73 for #7!

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, P.O. Box 13, Port Washington, Wisconsin 53074 (Ray Meyer, N9PBY, Editor).

W9NN Wows 'em at 1993 QCWA National Convention

(Continued from December, 1993 BSSS)

Because it was impossible for many members to travel the distance to New York, it was decided to allow Chapters to be chartered geographically so that local meetings could be held. The first Chapter was the Cleveland Chapter, chartered #1, January 6, 1951, followed by many others, and totalling over 180 chapters today.

It is regrettable indeed that the newer members will never know the romance and nostalgia generated by the development of the pioneer days of amateur wireless.

Of the 54 Charter Members, 47 are now Silent Keys, with seven still living. The seven are Irving Groves, K4HT; Frank Lester, W4AMJ; Ralph Hasslinger, W2CVF; Clarence Seid, W2KW; Bill



Kennedy, W2AS; Nat Burnett, K4OL; and Bob Baird, W9NN (of Plover, Wisconsin, in the photo).

It has been a great 45 years. In fact, for me it's been a great 71 years!

(This address was given by Ralph Hasslinger, W2CVF, at the 1993 QCWA National Convention in Clearwater/St. Petersburg, Florida in October, 1993. The convention was dedicated to the seven living charter members, which includes Bob Baird, W9NN. Bob's original call sign was 8AIB.)



When Bob Baird, W9NN, attended the QCWA Convention, his "date" turned more than a few heads. She is Nancy Evans, an "old personal friend" of Bob's, who was Wayne King's vocal soloist in the big band days. She was with King for 25 years until he passed away in the late 1960s. She also has made many television appearances and commercials.

- Photo courtesy of Bob Baird, W9NN

Here and There

Continued from page 5

QST).

An article in the Nov. 23 New York Times described the so-called "clone phones" as available on the street for as little as a few hundred dollars and popular among drug dealers, according to the Manhattan U.S. district attorney. The Times also said that devices capable of intercepting cellular phone calls can be bought by mail-order or "for

even less money can be fashioned out of more commonly available gadgetry."

- The ARRL Letter, 11/29/93

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The Amateur from Newburg: KB9UE

By Les Peterson, W9YCV

9741 West Howard Avenue, Greenfield, WI 53228

You have to be new to the Wisconsin sideband nets not to know Andy, KB9UE. Most of us know him quite well but perhaps many of you have not had the opportunity to have an "eyeball QSO" with him. With this article, I will try to make him better known to you. Then, the next time you hear that Tennessee accent voice check into the net, you will know to whom you are listening. It has been quite a few years since Andy and I first met. To tell you the truth, I cannot recall just how we became acquainted. You perhaps are wondering just why you are not hearing his voice on the nets these days. Well, it so happens that Andy is currently a patient in the Clement Zablocki Veterans Administration Medical Center here in Milwaukee. Andy has undergone surgery resulting in the loss of his right leg below the knee. More surgery is to follow, but that does not stop him from enjoying his hobby of Amateur Radio. He has a two meter handheld, a battery charger and a 5/8 wave mobile type antenna parked by the window. With this setup, he is able to keep in contact with his many friends on the 146.73, 146.91, 146.97 MHz repeaters and on 145.52 MHz simplex. He can maintain contact with his Air Force MARS friends on the MARS repeater too.

Let me fill you in a little on Andy. He lives on a high point in Newburg with his wife and one son. They also have a daughter who lives in the area and several other children that live elsewhere. Andy first became licensed in the late '70s with a different call. His interest in radio started much earlier though as the result of a brother who was playing around with radio. Earning a living by working at Allis Chalmers for twenty-five years, raising a family and other factors hindered his getting a license until the late '70s -- about the time he retired from Allis Chalmers. His major interest is communicating. He enjoys providing phone patches into and out of stricken areas during disasters. The Mexican earthquake is one example. Also, he loves handling traffic for service personnel and others out of the country. He has handled many messages on the MARS circuits and brought many to the amateur circuits. Much of the traffic he gets comes via RTTY or packet. Similarly, he also enjoys answering calls for help from those traveling the highways and byways. If you wish to contact him on packet, send a message to his home BBS. It is WB9TYT on 145.69 MHz. His packet station does not park on any one frequency.

Andy is a member of the Ozaukee Radio Club and the Washington County Radio Club. You would always see him working at the Ozaukee Radio Club Swapfest. These past years his favorite sport was fishing. The favorite spots were Lake Winnebago, Buttes Des Morts and Lake Michigan near the Port Washington harbor area. My family has enjoyed several times the smelt, salmon and white bass he has caught.

On Saturday afternoon in early October, some of Andy's amateur friends paid him a visit. We gathered in the day room close to his room, and we met some personnel who help to care for him. They are: Sgt. Faye O'Kelley, PFC Renee Bubb, PFC Tracy Peotter, Larry Brooks and Bruce McKee. These are members of the Air National Guard who gain experience by performing service at the VA Center. On this weekend, Larry and Bruce were working in the food service department. The young ladies were helping to make the patients comfortable in his area of the hospital. Since what they were doing affected his comfort, he invited them to be in the picture, though he did not know them personally. Andy says that a dietician, with a computer, plans 400 to 500 meals three times a day plus some supplemental meals for the patients. Each meal is different, and he has no complaints on the food.

As a veteran with a disability, he has been coming to the VA Center since 1955. It was much smaller then and located three red brick buildings then. The present VA Center, ten stories high, was built in the 1960's. It can house a thousand or more veterans at a time. In Andy's estimate (as a frequent patient), each person working at the Center does a great job and the patients get the best treatment there.

It will be some time before Andy can return home and again pursue his amateur activities. But he is looking forward to that day when he can resume



Standing (L to R): Ed Smith, W9DYO; Dick McNew, WB9PTC; Larry Puza, WB9BVB; Bob Stockfish, AA9EF; PFC Tracy Peotter; PFC Renee Bubb; and Larry Brooks. Front Row: Sgt. Faye O'Kelley; Andy, KB9UE; and Bruce McKee, posing with Andy in the hospital's lobby.



From left to right, Larry Puza, WB9BVB; Bob Stockfish, AA9EF; Andy Henderson, KB9UE; Dave Barrow III, N9UNR; and Jim Stout, N9GVO pose by the painting of Clement Zablocki in the lobby of the Clement Zablocki Veterans Administration Medical Center.

- Photos by Les Peterson/W9YCV

helping others by means of his phone patch and message handling capabilities. As an ardent Air Force MARS member, he is offering to help anyone who is interested in joining any of the MARS programs. Just send your name and address to him (or maybe you just want to send him a card.) His addresses are:

HOME: A. D. Henderson, KB9UE, 6814 Enge Dr., West Bend, WI 53095
HOSPITAL: A. D. Henderson, KB9UE, Clement Zablocki V.A. Medical Center, 5000 W. National Ave., Milwaukee, WI 53295.

On Tuesday, November 23, I stopped by to see Andy only to find him about to board a gurney and head for the operating room. It seems further surgery was necessary. He is back in his room and has recovered sufficiently to return to two meters.

We wish you the best, Andy, in your recovery process, and look forward to the day when you can return to the nets. ★

RTTY Roundup Dates

There have been conflicting reports in some media as to which weekend the ARRL RTTY Roundup is scheduled. The correct dates are January 8 and 9, 1994.

For complete and accurate information, check page 127 of December *QST*.

- ARRL Bulletin 118, 12/23/93



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OUR WANT ADS GET RESULTS

WANTED: Heath (or other brand) 52Ω constant impedance, selectable loss RF attenuator box; no loss with all attenuation switched out. Jim Romelfanger, K9ZZ, 412½ Ash Street, Baraboo, WI 53913. (608) 356-4031, or packet @ WD9ESU.#SCWI.WI.USA.NA. □

Articles Needed!

Badger State Smoke Signals needs articles about ham radio operators doing ham radio things. General interest, human interest, technical, humorous.... your own imaginations are the only limit. Good photos are appreciated, too. Articles should be sent to the editor. His address is on page 2 of each issue. Photos are *not* usually returned.



I UNDERSTAND THE NEW CAR WARRANTY IS VOID ON THIS CAR IF 2-WAY RADIO IS INSTALLED

Wisconsin QSO Party!

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WIQP is the PC logging program developed specifically for our state QSO party! It keeps track of Wisconsin counties, states & Canadian Provinces worked. WIQP even handles the mobiles you work as they move to new counties. It scores the different point values of CW and phone QSOs. Imagine having your logs and dupe sheets printed out and ready to mail minutes after its over! This year enjoy the Wisconsin QSO Party without the paper work!

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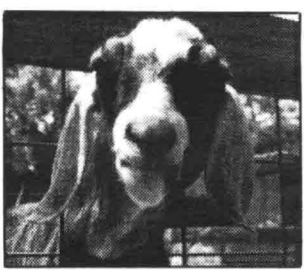
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From the Old Goat

Jim Romelfanger,
K9ZZ, Editor



It was so cold on the evening he wrote this that we left our friend with the goatee in the warm barn and we sat a computer next to him. We could almost hear him speaking his thoughts aloud - no kidding! He did have a few things for us to pass along to you, and we found his material on the computer the next morning.

✓ Larry McCalvy, WA9JMO, of Racine, is planning another journey to Russia. He expects to again visit his Amateur Radio friends in Irkutsk on Lake Baikal, and we hope to have another story later about the friends he and Wendy (N9PAC) have found and continue to find there. We did publish a story last year, which Larry wrote, and in which he asked for donations of used ham gear. Before the Soviet Union disintegrated, the government subsidized ham club stations. Now, the hams are all on their own. Inflation is serious in Russia, and with food prices high, there's little or no money left for ham radio gear. Larry did receive *some* response to his request - from *Texas*. (Who says this newspaper doesn't get around?)

Larry still seeks useable ham gear, and is planning the necessary logistics to get it directly to the hams in Irkutsk. We all thank the Texas hams who displayed their interest and we're glad to have their help, but we would be happy to have some Wisconsin hams (clubs?) be a part of this humanitarian, person-to-person project too. If you or your club has gear (rigs, coax, antennas, etc.) that can be spared with little or no pain, please contact Larry McCalvy, WA9JMO, 5400 Six Mile Road, Racine, WI 53402.

FCC, VECs Cooperate in Exam Probe

Licenses Pulled, Examiners Suspended in California

The FCC has invalidated the licenses and license upgrades of 21 people after an investigation of irregularities at four volunteer examiner test sessions in southern California in June and August, 1993. The sessions involved both the ARRL and W5YI VECs, and a number of volunteer examiners have had their accreditations suspended as a result.

The ARRL-VEC has suspended the accreditation of four volunteer examiners at the FCC's request, and that of three additional VEs involved in one of the test sessions after finding irregularities in the records from one of the suspect test sessions.

The FCC thanked the VECs for their help in the investigation, and lauded volunteer examiners for their hard work and dedication.

John B. Johnston, chief of the FCC's Personal Radio Branch, said:

"I'd like to commend ARRL-VEC for working together with W5YI-VEC to uncover irregularities at several recent sessions in the Los Angeles area

and suspend the VEs involved. Your action will prevent future occurrences and assure that amateur licenses are granted only to those who are truly qualified. You've also sent a strong signal that ARRL-VEC is vigilant in its oversight to keep the the volunteer testing system at the highest level of integrity.

"I know," Johnston said, "it takes time and effort to scrutinize test materials and contact applicants and VEs concerning a suspect session, but it's occasionally necessary for the good of amateur radio. The volunteer testing system is a great success. Your oversight validates and supports the hard work of the many dedicated VEs who participate in testing - as well as the hams who passed their tests and are now making the contributions to society for which amateur radio is so justly renowned."

- The ARRL Letter, 11/29/93

✓ Watch your forthcoming issues of *QST* for a story called "Ham Radio Rides the Great Circus Train." We don't know exactly which issue it will be in, but we do know the writer very well. Maybe too well.

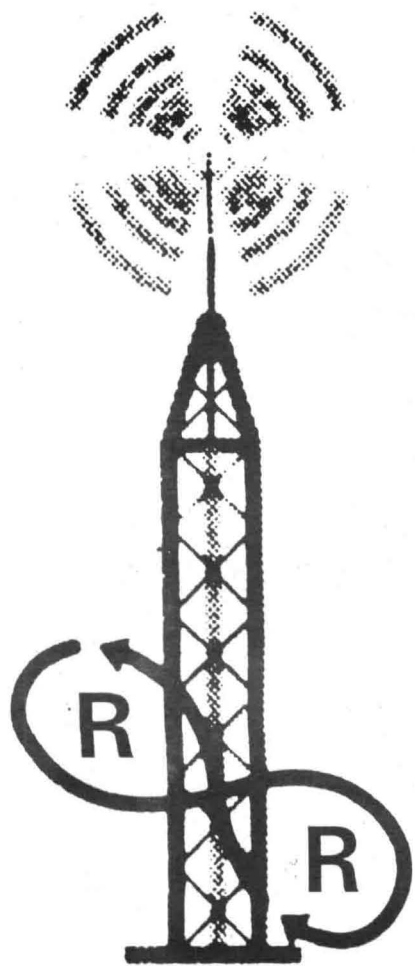
✓ Hamfest/swapfest advertisers are reminded that, as part of the special advertising package they receive, they get one free display ad in addition to their card-size, 12-month ad. *Those advertisers are responsible for getting two clean copies of the flyer for their hamfest/swapfest to the editor at least two months before the date of the 'fest.* We will reduce the size somewhat and border it to make it a nice display ad. Reproduction is best from a flyer printed on white stock. Just ask your printer to

throw a few white sheets in if you normally use colored paper.

That reminds us to remind hamfest/swapfest sponsors that some of the flyers we get do *not* look very good. With the proliferation of desktop publishing equipment and laser printers, having a flyer typeset with that kind of equipment, getting a professional-looking, easy-to-read flyer is easy. It makes a flyer look better, read better, and even makes your event look better. It also reproduces better here in *BSSS*. Typesetting costs for a flyer, if it has to be done in a typesetting shop, aren't that high. You will be doing your event a favor by handing out good-looking, easy-to-read flyers. Flyers that are hard to read sometimes are not. □

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PARTICIPATING Clubs and Organizations



Riverland Amateur Radio Club

Dick Low, K0JYB,
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES December 7, 1993

The December meeting of the Riverland Amateur Radio Club was called to order by President Bob, N9LZK, at 7:00 p.m. There were 29 members present and two guests, Dan Ecklund and his son Joshua from Viroqua, WI.

The reading of the minutes was dispensed with pursuant to a motion by Feroz, WU9N.

The treasurer's report was given by Duane, W9HWQ, and accepted as read.

ANNOUNCEMENTS:

President Bob, N9LZK, announced that the annual club dinner will be held at Knob Hill. The date is January 15th, 1994, cocktail hour from 6 p.m. to 7 p.m. and dinner at 7 p.m., ordering from a menu. The gratuity will be added to the bill.

COMMITTEE REPORTS

Walt, AA9AW, reported that a blocking filter was placed in a complainant's scanner feed line, thus preventing 2mtr signals from interfering with the scanner. Thanks to Ron, W9EOA for constructing the filter.

OLD BUSINESS

Karl, KB9EQI, reported the results of the 1993 Field Day from an article in the November QST. There were 300 entrants in category 1A and we were #9, although we did not have any Novice-Tech station. We should try for a Novice-Tech station next year.

Kent, W9LZQ, inquired about the Super-Link project out of the Twin Cities. Clarence, N9NXW, stated that he has sent a letter to the group and has not heard from them as yet.

NEW BUSINESS

Van, WA9FIO, announced that he will present a sound tape recording. It describes the tracking of a typical line noise interference source to its exact location and describes the technique used in the tracking the line noise.

Jim, N9RWL, suggested that we send for application forms for the ARRL Friendship Award Certificate. The award is available to any ARRL Member who submits log extracts that show two-way communications with 26 stations whose call signs end with each of the 26 letters of the alphabet. (For example, N1MZA, K0ORB, W9ABC...K1ZZ.) The rest of the rules are printed on page 50 of the November QST. Jim will send for the forms.

Bob, N0PDD, informed us that Frank, N0MWE, of Rochester, MN needs a contact on 10 Mtrs. from WI. It was suggested that he listen on 10 Mtrs this week-end, as there is a contest being held on that band.

Feroz, WU9N, suggested that N0PDD remind the Winona club to reserve Perrot State Park for the 1994 Joint WARC, RARC picnic on the 3rd week-end in August.

ELECTION OF OFFICERS

The following people were elected as officers of the RARC for 1994:

President: Feroz, WU9N
Vice President: Greg, KA9FOZ
Secretary: Judy, N9LGV
Treasurer: Mark, N9UNW

Feroz, WU9N, thanked the 1993 officers for their fine job.

There will be no increase in the Club dues for the year 1994.

Meeting adjourned at 7:25 p.m.

Many thanks to Van, WA9FIO, for his presentation on tracking power line noise interference. An 11 mtr receiver was used for large area tracking, as well as an aircraft frequency receiver for pin pointing the exact power pole location. His tape recording of the exercise was excellent.

As outgoing Secretary, I want to thank you all for the opportunity to be secretary for the past two years. It has been a learning experience for me, and I would like to wish Judy, N9LGV, good luck for the year 1994.

Submitted by Dick, K0JYB



Washington County Amateur Radio Club

David Parkinson, KA9RNU,
Secretary/Treasurer
708 Robin Street
West Bend, WI 53095



MEETING MINUTES December 9, 1993

The December meeting of the Washington County Radio Club was called to order by Vice President Mike, N9NBN, at 7:33 p.m. There were 11 members and 4 guests: WB9DLT, WB9RWV, W9QMD, and N0GMJ.

The minutes were read by Secretary Dave, KA9RNU, and accepted as read.

The treasurer's report was read by KA9RNU and accepted as read.

OLD BUSINESS

Nomination committee, WB9BVB, N9OFD, and N9UGH, reported they were continuing to receive any nominations who would be interested in any of the offices. At this point, for president is N9NBN, for vice president is N9LLS, and for secretary-treasurer is KA9RNU.

WB9BVB presented to the club three possible restaurants for the club dinner: Country Retreat, Timmer's, and Heidelberg's. The members voted to have the dinner on January 15 at Country Retreat (3461 High Road, Hartford). It was decided to have a social hour from 7-8 p.m. and dinner at 8 p.m. Spouses are invited.

Letters were sent out to the individuals who will receive a complimentary issues of the *Smoke Signals* as reported by KA9RNU. N9NBN encouraged members to pay their membership fees tonight or before next month's elections.

NEW BUSINESS

N9LZW reported a correction to be made in the net section compiled by Richard Regent in regard to the Washington County ARES net on Monday, which is incorrect.

N9LZW requested lady ham operators are needed for December 24th for the Southeastern Wisconsin ARES. They will be running Operation Santa Claus, where the YL's will be visiting various shelters, such as battered children, and contacting Santa Claus.

ANNOUNCEMENTS

N9LZW reported in behalf of N9LLS on the Hartford Christmas Parade on November 14th. The 10 operators who participated in patrolling the parade were N9LLS, N9LZW, N9KDO, N9PMR, WB9BVB, N9LLT, N9NBN, N9OFD, WD9BCV, AND K9MLD.

N9NBN stated last call for those who were interested in purchasing club jackets, T-shirts, and sweatshirts.

A get well card given by KY9P for KB9UE was passed around for the membership to sign. (Andy, KB9UE is recovering at the Milwaukee VA Hospital).

WB9BVB mentioned our Saturday morning breakfast will be at Jimmy's in Jackson for December 11th. It will be rotated in order with Around the Clock in West Bend, Slinger Inn in Slinger, and Around the Lake III in Hartford.

The program was given by W9QMD, Fred, on "Principles of Grounding." □

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WB9QFW 2-Meter Repeater 146.07.67 and Club Station

P. O. Box 847 • Plover, WI 54467

MEETING MINUTES December 8, 1993

Attendance

Joe Larson	N9JW
Art Wysocki	N9BCA
Mike Pagel	KA9LAQ
Al Mallek	N9???
Roger Kanieski	N9UAT
Frank Guth	W9BCC
Frank Podach	N9JQR
Jim Benak	KA9ACE
Steve Kochanowski	KB9IIE
Adriana Sara Rose Dix	KB9DUR
Ray Dix	KF9BG
JoAnn Dix	N9NOG
Joe Omernik	N9CGV
Loren Larson	N9SEA
Scott Jasper	NE9U
Leo Liebl	W9NYS
Gene Kroll	KE9MA
Deb Kroll	N9EIL
Mary Eiden	KA9FAS
Mike Eiden	WD9JID
Ron Howe	NJ9H
Dave Golla	N9OVT
Jeremiah Maller	N9???

Jasper, NE9U, reported a small but positive cash flow over the past month.

Secretary Joe Larson, N9JW, reported on the results of the latest Novice/Technician class and the exams held recently. Soon to be new Technicians: Al Mallek, Jeremiah Mallek, and Michelle Szymkowiak. Michelle is the harmonic of WA9LXZ. Al is the second cousin of K9WVM. Jeremiah, as far as we can tell, is not related to any other hams. However, when he gets his license he will be the youngest ham operator in the county: age 9. It was rumored that he didn't get any wrong on the tests, either. Congratulations to all on a job well done.

The club offered its collective thanks and appreciation to the VE team: Ron Howe, NJ9H; Joe Larson, N9JW; Frank Guth, W9BCC; Scott Jasper, NE9U; and Doc Rifelman, WA9N.

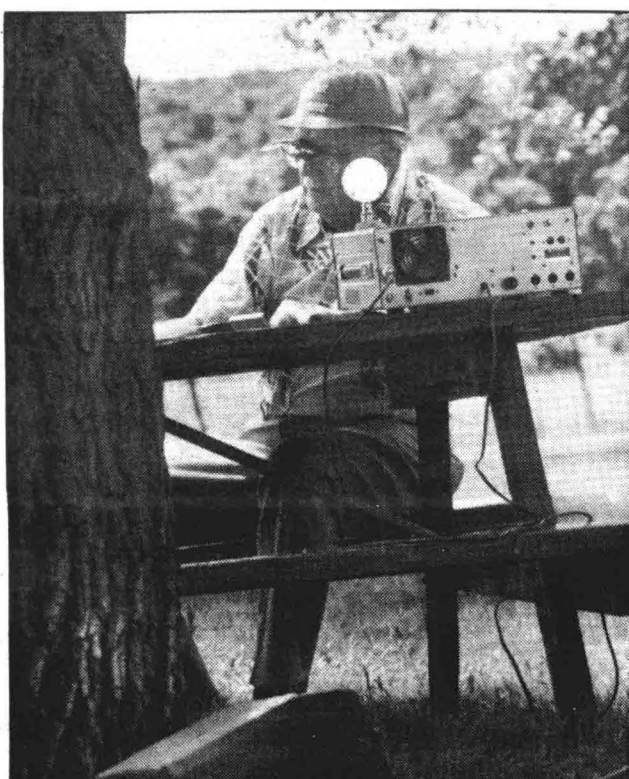
Also thanks from the club to N9JW for teaching the class again this year.

Speaking of classes, contact Gene Santoski, K9UTQ, if you are interested in General/Advanced classes. He is coordinating classes to start early 1994.

Equipment Manager Ron Howe, NJ9H, reported on the work he was doing

Think Warm!

As we begin January, the month with the lowest daily mean temperature of 15 degrees F, it's hard to not think about warmer months and outdoor activities we enjoy without having to wear long johns. This photo was taken at the Yellow Thunder Amateur Radio Club's Field Day site, Owen Park in Columbia County. That's Harry Westlund, K9EHJ, yakking up the QSOs. He and his wife recently moved back to Illinois from Baraboo. Hey, this great outdoor, warm weather fun is only about six and a half months away! The club was founded in October, 1969; 1994 will be YTARC's 25th year and it's still going strong!



Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

RACINE MEGACYCLE CLUB COMBINED CHRISTMAS PARTY AND MEETING

December 12, 1993

The party began about 6:30 p.m. with everyone bringing in the various Pot Luck dishes and making them ready for the meal. About 25 Hams and spouses showed up, and the evening meal started about 6:00 p.m.

Cheryl, WS9P, with husband Gary and son Jim had arranged everything very nice with a punch bowl, snacks and a crackling fire. The large dining table was filled with the various food and dessert dishes and there was plenty of everything. There was a festive atmosphere and everyone enjoyed themselves at the many small table groups in the living room and the huge recroom with the fire place. After supper, Alex, N9RGX, entertained with piano playing until the food auction started.

Master Auctioneer Dave, WB9USI, held the auction of the many items from fruit basket to cakes and candy. With great skill and humor Dave managed to bring up the final prices among laughter and bids. The auction brought in some \$30.00 to the Megacycle treasury.

With both the President and Vice President absent a short, informal business meeting was conducted by undersigned.

Bob, W0WLN, was asked to report on the controversial county wide radio tower ordinance which may mean difficulties for future radio tower builders. Bob has spent a great deal of time and effort to make the hams the exceptions to this ruling, but at this point all efforts seem to be in vain. Bob was thanked for his efforts.

No other old or new business was brought up for discussion, and no treasurer's report was given. The meeting in January will bring up all other reports

HAM CALENDAR Courtesy Racine Megacycle Club

Jan	9	Hamfest at Waukesha
Jan	10	MEGACYCLE MEETING
Jan	30	Hamfest at the Odeum
Feb	14	MEGACYCLE MEETING
Feb	22	Hamfest at Eau Claire
Mar	14	MEGACYCLE MEETING
Mar	20	Hamfest at Jefferson
Mar	27	Hamfest at Grayslake
Apr	10	Hamfest at Madison
Apr	11	MEGACYCLE MEETING
Apr	17	Hamfest at Rockford
May	7	Hamfest at Manitowoc
May	7	Hamfest at Cedarburg
May	9	MEGACYCLE MEETING
May	15	Hamfest at Peotone
Jun	13	MEGACYCLE MEETING
Jul	9	Hamfest at Oak Creek
Jul	23	Hamfest at Eau Claire
Jul	31	Hamfest Racine!

overlooked at this meeting.

The host and hostess were thanked for their great hospitality with a round of applause.

The party broke up about 9:00 p.m.

The next meeting will have financial planning as a topic, and this will be a good time to ask questions about retirement plans, investing and insurance matters.

The RMC-sponsored Packet Group may have found a new meeting place. It may be the restaurant at HWY KR and I-94. Check with Bruce, K9RRS, or any other packet group member.

Respectfully submitted:
Arne, KA9ZPY, Club Secretary

WATTS SNOO

Continued from page 10

to get the 146.985 repeater back to full strength. He moved it to the 146.670 site (UWSP Library roof) to see if the location was the problem. The location made no difference. At this writing, the trouble could be in the receiver front end. However, similar junk has been noticed on other local repeaters, so the problem could also be a parasitic in some local paging transmitter. The local Motorola service representative volunteered to work with us to find the cause. Watch this space for more details, or check in the Monday night net at 2100 on the 146.985 repeater for updates.

Our next club meeting will be the annual banquet. The date will be January 12, 1994. Attitude adjustment starts at 1800, with dinner scheduled for 1900. Location will be Anthony's on north Second Street, formerly the Who Cares Supper Club. Let Loren Larson, N9SEA, know by January 10 if you are coming so he can let Anthony's know how many to expect. Cost will be \$7.50 per person. Special note to N9BCA: Art, you only get to eat one meal, but you do get to take seconds and thirds, etc.

Congratulations and best wishes to Gene and Deb Kroll, KE9MA and N9EIL,

who celebrated part of their 20th anniversary by attending the club meeting.

Frank Guth, W9BCC, thanked the helpers for the Frostbite Run. The race officials were very impressed by our handling of communications at the tail end of the runners.

Frank also reminded us that he keeps a card file of everyone's license expiration date, and sends out a reminder a couple months ahead of time along with a 610 to renew. Lots of tickets expiring in 1993 and 1994. Check your license. When does (DID?) it expire?

We adjourned around 2015.

Ray Dix, KF9BG, is a certified First Responder, and gave us a short program on the effects of electrical shock on the body. Ray has first hand experience with this. He reminded us that 120 volts AC is enough so that you can't let go, and while you're holding on to the current the electricity is busy inside your body turning itself to heat and burning up your internal organs.

On a related note, here's the latest update from CPR "central": Call 911 first, then start CPR. And of course, don't touch a person who is getting a shock: turn off the power first, then call 911.

Electricity is the most patient killer there is. It will wait for years for you to make a mistake.

Respectfully submitted,
Joe Larson N9JW
CWRA Club Secretary

WELCOME!

Two more clubs have become participating clubs here in *Badger State Smoke Signals*, starting with this issue. A hearty "welcome aboard" to Southern Wisconsin Chapter 162 of the Quarter Century Wireless Association (QCWA) and to the Washington County Amateur Radio Club. We hope our working relationships with these clubs, as well as with the other clubs already in these pages each month, are long-lasting and productive ones. If you'd like information about how our special club deals work, write or call Publisher Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901, (608) 742-3560.

Taylor County Area Amateur Radio Club

Bernard Jari, KA9WDX, Secretary

W3159 Hanley Lane • Medford, WI 54451-9689

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, January 6th at 7 p.m. in the Emergency Government meeting room/Red Cross office located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or on 146.52 simplex.

EXCERPTS FROM MINUTES OF DECEMBER 2, 1993 MEETING

Meeting was called to order by President N9GEN. Present were N9GEN, KB9BLV, N9UBR, N9IDW, N9QVX, N9UBQ, WA9YCT, N9GHZ and N9FZD.

Motion carried to dispense with the reading of the minutes of last month's meeting (which were quite lengthy!). Treasurer's report was given by Treasurer N9QVX. We are still in the black. Motion carried to pay a bill received from Northway Communications in the amount of \$106.82 for tower work done on our repeater antenna/feedline. Motion carried to pay N9GHZ for miscellaneous expenses incurred for work on the repeater, club mailings and business, etc. Motion carried to provide KB9BLV and WA9ZCO with one year's club membership and paid BSSS subscription for services rendered in work on the repeater.

Problems with the repeater, since it was worked on and reinstalled at the tower site, were discussed. There appear to be three: 1) no PL tone on the output of the new transmitter; 2) problem with the audio dropping out with the telephone line connection made; and 3) greatly reduced sensitivity on the receive side of the repeater. Only local (up to 5 miles) and high-powered stations can access it. It is presently useless to mobiles outside the Medford city limits. The duplexer was removed earlier in the evening and repeater being off the air again temporarily. Also, a check of the telephone line using a standard telephone indicated no problems with the line so the problem would appear to be in the repeater itself. N9GHZ will call the company regarding the lack of PL tone on the transmitter.

There was some discussion as to the possible disposition of the remaining components of the original VHF Engineering repeater, which were taken out of service with the recent work on the repeater. These include the power supply, controller and transmitter in a 19-inch rack mount. There is also the old repeater cabinet and a never-used/installed courtesy tone beeper board. It was felt that due to the problems with the present equipment at this time.

The current status of the Taylor County command post bus was discussed. N9UBQ reported that during a simulated chemical spill exercise held in Medford a few months ago, N9GHZ installed the new 2-meter/70cm band radio in the bus and erected the mast and antenna on the mount that was installed at the back of the bus, and was able to access several area repeaters, as well as demonstrating the equipment for various county and city officials. Motion carried to have the club secretary send a letter of thanks, on club stationery, to Leo Wright of Wright-Way Body Shop, for work done on the ham radio antenna mast mount for the Taylor County command post bus.

The meeting was adjourned at 8:21 p.m., and was followed by a presentation made by N9FZD, with accompanying videotape footage of his recent trip to Russia with a missionary group from a local church.

REMINDER - UPCOMING ELECTIONS FOR 1994 CLUB OFFICERS: Just a reminder that elections for 1994 TCAARC club officers will be held at our January meeting. If you don't show up, you just might end up being elected to a position in your absence it's happened before! Be there!

REMINDER - 1994 TCAARC CLUB DUES ARE DUE: It's time again to renew your club/repeater dues. Many members who paid dues ahead 5 years ago for our major repeater projects are now coming due again. If you're in doubt as to the status of your dues, please check the expiration date on your wallet membership card or check with the current club treasurer. Dues are \$10.00 a year and may be brought to a club meeting or mailed to the current club treasurer (to be elected at the January meeting). Make checks payable to: Taylor County Area Amateur Radio Club. Any current member who does NOT renew their dues through 1994 will have their autopatch privileges revoked, so be sure to take care of this!

REMINDER - BADGER STATE SMOKE SIGNALS SUBSCRIPTIONS NEED TO BE RENEWED: As a result of a recent change made by the club membership, ALL member subscriptions to BSSS, regardless of what time of the year they were started in, MUST be paid at the start of each year. The member's share of their subscription is \$5.00 a year, with the club paying the balance of the subscription rate. Bring payment to a club meeting or mail to the current club treasurer (to be elected at the January meeting). Make checks payable to: Taylor County Area Amateur Radio Club. Any current member with a subscription who does NOT renew it through 1994 will be dropped from the mailing list when the club receives its next quarterly billing from BSSS.

Clark/Taylor County Amateur Radio Emergency Service (ARES) News

From Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are: 1) 147.15 MHz simplex and 2) 146.58 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

SILENT KEY: N9GHZ recently received information that Wade Lepke, W9BCS, of Neillsville, passed away on February 14, 1989.

OTHER NEWS

✓ Scott Young, N9FZS, has moved from Colby to Marshfield. His new address and home phone no. are as follows: 603 W. 5th St., Apt. 101, Marshfield, WI 54449, phone (715) 384-4542. Scott is working at ESE, Inc. in Marshfield, which is where WA9ZCO is also employed.

✓ 1993 DIRECTORY OF CLARK AND TAYLOR COUNTY AREA AMATEUR RADIO OPERATORS: Here are several additional major changes and/or corrections to the 1993 directory, since it was distributed earlier this year:

WT9P: license class should be "Extra".

KA9WDX: license class should be "Advanced".

Delete entries for: W9BCS and N9FZS.

Also, a reminder that some individuals listed in the directory have UNLISTED home telephone numbers. DO NOT give out their numbers to ANYONE, with the following exceptions:

1) You may give the number out to another person listed in the directory (assuming they have lost their copy) but NOT over the radio, and provided that you are able to identify that person is being who they say they are.

2) You may give the number out to government and public safety officials or to officials from agencies or organizations that we are providing EMERGENCY communications for at the time. □

Quarter Century Wireless Association Southern Wisconsin Chapter 162

Larry McCalvy, WA9JMO • 5400 Six Mile Road
Racine, WI 53402

As we step into 1994, I would like to wish you and your love ones a healthy, joyous and adventurous New Year.

The Southeastern Wisconsin Chapter 162 of QCWA is pleased and happy to join the *Badger State Smoke Signals*' growing family. May our association be long and fruitful.

Our annual Christmas party was held at Channings in Racine, on the 12 of December. Twenty-six members/spouses/guests enjoyed a wonderful meal, superb dining companions and invigorating conversations as we shared three hours on a lovely Sunday afternoon. An exchange of small gifts following the meal was our way of saying its nice to have you as my friend.

Our January meeting is scheduled for the 17th at Southport Restaurant in Kenosha, at the intersection of Hwy 50 and 47th Avenue beginning at 7:30 p.m.

We will discuss the Racine Country Ordinance affecting tower height restrictions plus upcoming club functions for the new year.

Two important February dates to mark on your calendars are:

✓ Sunday, February 13 for our Chapter's Valentine party, site to be determined at January's meeting; and

✓ Saturday, February 26 for the twelfth annual Southeastern Wisconsin Ham Banquet. The banquet will be held at the Racine Yacht Club, beginning at 6 p.m., dinner at 7 p.m., program at 8 p.m. and a fine selection of music from 8:30 to 10:30 p.m. Our Treasurer, Bob Jensen, W0WLN, will again gather in the reservations. Look for the Banquet Flyer and mail those reservations in early. We are limited to 90 guests.

73, Larry McCalvy, WA9JMO

Northern Wisconsin Radio Club

- Since 1923 -

Steve Hart, KA9OMC, Secretary

Route 1, Box 54 • Knapp, WI 54749

Greetings NWRC members and guests,
Welcome to the New Year!

The last meeting of NWRC was on Nov. 24 in Menomonie. No business was conducted. WA9CCB, Louis, brought his computer to see if anyone could assist him in his newest hobby.

It is time to remind you that it is time to renew your dues. Dues are \$5, or \$10 with a subscription to *Smoke Signals*.

I have been informed that my address will change in early 1994, so please take note.

Amateurs, please plan on attending the club auction scheduled for Feb. 22, 1994 at the American Legion Post 53 at 634 Water Street, Eau Claire. Auction time is 7 p.m. sharp. Doors will open at 6 p.m. for you to set up your items for sale. Please mark all items with some identifica-

tion, what you will accept as a minimum bid, and anything that might aid the sale. Items should pertain to the amateur and electronic hobby. Snacks and coffee will be provided. Please help us at the lunch counter by bringing some food items, except pop. All sales are final and we are not responsible for any loss. *Keep track of your stuff!* W9QAH, Col. Bruce Walther will auction to the highest bidder. We will auction what time will allow. See our ad here in *Smoke Signals*.

Next NWRC meeting is Jan. 25 at the Peppermill Restaurant in the T-Bird Mall Menomonie. Meeting time is 7:30 p.m.

NWRC Sec/Treas. KA9OMC
Steve Hart
Rt. 1 Box 54, Knapp, WI 54749
715-665-2374

Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204

MEETING MINUTES December 8, 1993

The December meeting was called to order at 7:35 p.m. by Steve N9PBL. The treasurers report, and the minutes for the November meeting that were printed in *Smoke Signals*, were both approved as read.

OLD BUSINESS

At the request of Club President Steve, N9PBL, Clancey, KB9ECW, updated the club about payment for use of the phone patch that is hooked up to the club's repeater.

Club President Steve mentioned to club members that a sign sheet was available for committee positions to take care of various club functions.

NEW BUSINESS

John, N29Z, announced that 3 hams who participated in the DX-pedition to Corn Island (which is located off of the coast of Nicaragua), will be guest speakers at the club's January 15 Christmas party. A motion was made, and approved, to

have the club pay for the meals of these guest speakers.

The club thanked Ron, WS9X, and Janice, N9IQZ, for making pin-on name tags (with the member's call letters on them), to be worn by club members at club meetings, and other club functions. These tags will help members (who may have talked to each other on the air, but not seen each other in person) to better place names and call signs with faces. Thanks again for making them, Ron and Janice!

Licensing classes for Novices and No-Code Technicians will be held for the first time on January 13 at 7 p.m. They will be held in the basement of the Manitowoc City Hall. Club members should be interested people about this.

Club President Steve mentioned that effort should be made to get the club station W9DK on the air more often. Any members who are interested in doing this should contact Steve, N9PBL, or Eric, WD9IAB. If you are a Novice or No-Code Tech., you can still operate HF, with a control operator (for those frequencies you are not licensed to operate) to assist you. Other club members will gladly be a control operator for you.

Sheboygan County Amateur Radio Club

Gregg Meschler, N9PZV, Secretary

2309 North 34th Street • Sheboygan, WI 53083

The December 14, 1993 meeting of the Sheboygan County Amateur Radio Club was called to order at 7:00 p.m. by club Vice President Steve Meifert, KF9KZ.

COMMITTEE REPORTS

The minutes from the last meeting were read and approved as read. The treasurer's report was read.

Volunteers were solicited for 2M net control. The net is held every Monday evening at 7:00 p.m. local time on 147.060+ MHz (107.2 PL).

A letter is to be sent to the Wisconsin Association of Repeaters regarding a PL frequency conflict with another Wisconsin repeater.

The VEC team announced that six people passed FCC elements, with five new licences earned. We welcome: Gene Povalski, Novice; Tim Plumb, Tech+; John Nonnweiler, General; John Crossett, Novice; Clayton Nall, Tech +; and Amy Bahr passed element 2.

OLD BUSINESS

The next hunt is tentatively planned for Saturday, January 15, 1994.

Valentine's Day dinner is Friday February 11, 1994 at Rupp's at Riverdale. Contact Al, NF9R, at 893-5071 by January 30th.

Elmers are seriously needed for the potential HAMs this December. Please

volunteer thru Tom, AA9BJ.

NEW BUSINESS

Joe, N9REH, presented the club with a hand out and explanation regarding use of his repeater which may be used by all licensed amateurs. Thank you, Joe.

Future meeting Programs: January - Wave display; February - Valentine's Day Dinner; March - QSO party; April - Weather Service (tentative); May - Field Day planning; June - Field Day final planning; July meeting will be held at Field Day, June 26th.

Gregg, N9PZV, was awarded the coveted FLAT TUBE Award for presenting the club with a computer for the shack. It was donated by Thomas Industries Inc.

Nomination forms for SCARC Ham of the Year are due in before the end of the meeting.

The next club meeting is January 11, 1994 at 7:00 p.m. at the Red Cross Building, 2032 Erie Ave., Sheboygan, WI. There may be a surprise slide presentation and mini contest to win the ARRL *Antenna Handbook*.

The meeting was adjourned at 7:50 p.m. for snacks, cake and refreshments. Joe, N9REH, offered an HT clinic using his service monitor to those interested.

Submitted by
Gregg Meschler, N9PZV

Eau Claire Amateur Radio Club

J. Brennan Fitzl, N9LIJ, Secretary

1418 Altoona Avenue • Eau Claire, WI 54701

CHRISTMAS PARTY

The Eau Claire Amateur Radio Club held its annual Christmas Party on Tuesday, December 14, 1993 at the Eau Claire Parks and Recreation Building. Festivities began at about 5:30 p.m. with much camaraderie and one-on-one conversations among the 50 members and guests present.

This is a traditional event, with the club providing ham sandwiches and the members each bringing a dish for the potluck meal. Melanie (N9QWE) and Carol (N9TUA) Ceraso did a fine job of decorating the hall for the party and Don (K9-UXP) and Jane Alm purchased the ham and buns for the club.

Nolene Harfson (N9MNA) purchased the door prizes given away in the spirit of Christmas and also presided over the telling of "my most memorable Christmas" stories by a number of members and guests.

BUSINESS MEETING

The business meeting was opened with a general introduction of members and their guests. As is customary at the December party, the business meeting took second place to the festivities and was reduced in scope, covering only the results of the election of officers for the coming year. Vice-President Kevin Zehr (N9OHE) presided in the absence of President Bill Jablonske (W9NNS). Officers for 1994 will be as follows:

Clancey, KB9ECW, asked for and received permission to use the club's call sign for any local emergency government packet station operations. He also read to the club a commendation that was given to club members who participated in an emergency exercise that was held at the Kewaunee Nuclear Power Plant.

Steve, KB9GPN, motioned for the club to procure new license manuals for the Manitowoc and Two Rivers public librar-

PRESIDENT: Kevin Zehr (N9OHE)
VICE-PRESIDENT: Burt Spangler (W9-ZZI)
SECRETARY: Jim Fitzl (N9LIJ)
TREASURER: Sue Eide (KB9EUP)

Our thanks to the past officers, and congratulations to those above who will take office at the January meeting.

NEXT MEETING

Our next meeting is January 11, 1994 at the Eau Claire Parks and Recreation Department at 7:30 p.m. Remember, 1994 dues are payable by this time. The agenda for the meeting will include nominations for the board of directors, with the election at the February meeting.

The next amateur licensing test session will be held on Saturday morning, January 15, 1994 at St. Olaf Parish School on North Lane in Eau Claire from 9:00 to 12:00. Please be there, ready to test, before 11:00 so that the examiners may finish up before noon.

THANK YOU!

Thanks to all who gave of their time and effort to make the Christmas party a success. Have a Merry Christmas and a Happy New Year. We look forward to seeing you all back at the club meetings next year.

Respectfully submitted:
J. Brennan Fitzl (N9LIJ)

ies. The club voted to approve this motion.

Ken, K9HAG, and Ron, WS9X, gave demonstrations of lasers they brought to the meeting. Ken also showed a video of his laser controlled drainage ditch excavator in operation.

Meeting adjourned at 8:50 p.m.

Respectfully submitted:
Eric Rugowski, WD9IAB

Wisconsin Nets Association Ltd.

**On-the-Air-Meeting
December 12, 1993**

Chairman Larry Guthu, WB9ICH, called the meeting to order at 1833Z, Dec. 12, 1993, on 3885 kHz. The following members and guests were on frequency: WB9ICH, KA9KLZ, K9FHI, K9KSA, KE9VU, N9UAR, KA9FVX, N9BDL, N9FVN, W9YCX, W9NGP, NS9Q, WC9O, and guests N9BCX and KA9BHL.

Chairman WB9ICH called for any correction or comments on the minutes of the Sep. meeting as mailed and published in BSSS. A motion was made and seconded (K9FHI/KE9VU) to approve the minutes. Motion carried. Treasurer Jim Merrell was not present. (Treasurer's report will be an addendum.)

OLD BUSINESS

Chairman WB9ICH inquired about the status of the WNA manual. Les, W9YCV, reported that the manual is ready to publish with some minor changes. K9LGU, K9UTQ and KA9KLZ have copies on disk. Les said that we may have to distribute the manual on disk to reduce costs. The cost of printing and mailing the manual would be prohibitive.

Chairman WB9ICH called for WNA members to encourage new amateurs to get on the nets and participate in the WNA activities. Larry also said that the net managers should strive to put a column in BSSS, especially the N/Ms of the SSB nets.

NEW BUSINESS

Art, KA9KLZ, suggested that the WNA members promote the WNA Boosters on the nets to try and raise some badly needed revenue for the WNA. Chairman WB9ICH also suggested perhaps cutting the picnic expenses in future years.

NET MANAGER AND ARRL OFFICIALS REPORTS

SECTION MANAGER (SM): SM Rich, K9GDF, was not present.

ASSISTANT SECTION MANAGER (ASM): Roy, K9FHI, wants all clubs to check and see if they are or can be affiliated with the ARRL. Any amateur club that wants information on ARRL affiliation can contact K9FHI.

SECTION TRAFFIC MANAGER (STM): Don, K9KSA, inquired as to the size of the new WNA manual. He reported that there may be a possibility of the ARRL helping with the mailing costs.

SECTION EMERGENCY COORDINATOR (SEC): Neither the SEC or ASEC was present.

BADGER WEATHER NET (BWN): In the absence of the N/M and any delegates, Art, KA9KLZ, reported that the band conditions in the morning have been extremely bad. Checkins and traffic are down but the net will survive. Still lots of checkins and enthusiasm.

BADGER EMERGENCY NET (BEN): N/M Wayne, KE9VU, reports that the net is doing good with checkins up to about 20 per day and the net is handling 4 to 5 pieces of traffic per day. Thanks to all who cover for net controls when they can't be there for their net. As always, more 9RN reps are needed. K9DHR, KA9FVX and W9UDX are handling most

of the load on 9RN. Wayne had a special thanks and tip of the hat to Sherm, W9NGT, for patching KB9UE and KA9KLZ into the BEN from their hospital rooms. HIP HIP, HOORAY, Sherm.

WISCONSIN SIDEBAND NET (WSBN): N/M K9UTQ was not present, and delegate K9FHI had no report. Delegate N9UAR mentioned that he may be able to reproduce the WNA manual for about 70 cents per copy. Bob also reported that the WSBN has been busy and traffic is up a little.

WISCONSIN NOVICE NET (WNN): N/M KA9FVX encourages more novices to check into the WNN. Chairman WB9ICH suggested that maybe some phone calls encouraging novices to check into the net may be in order.

WISCONSIN SLOW SPEED NET (WSSN): N/M N9BDL reports that traffic is up with lots of Handi-Ham Christmas traffic. Lee says to tune in on Monday nights to hear W9NGP's novel net call up. N9KHD has been acting as liaison between WSSN and 9RN and WIN.

WISCONSIN INTRASTATE NET/EARLY (WIN/E): N/M WB9ICH reports that the net is running fairly well. Big thanks to N9BDL for helping out while he is working nights. Larry needs a NCS for Fridays to replace W9OT who is a SK. And as always, more people to go to 9RN. W9CBE, W9YCV and W9CKC have been doing a great job on 9RN.

WISCONSIN INTRASTATE NET/LATE (WIN/L): N/M W9NGP reports that the net is going fine. All NCS slots are filled and reps are going to the next day SSB nets and 9RN. Band conditions are bad but the net is getting along.

NORTH WOODS TRAFFIC NET (NWTN): N/M NS9Q reports that the NWTN is operating 7 days a week with 12-15 checks per day with approximately 30 minute sessions. Mary says that the net is interesting and doing fine.

FINAL COMMENTS

Chairman WB9ICH commented that more 2 meter nets are needed in the state, and suggested that some be organized on some of the wide ranging repeaters.

Art, KA9KLZ, mentioned that Ed Giese, W9UCL, and Andy, KB9UE, are in the hospital and would appreciate cards and letters.

Wayne, KE9VU, said that he had talked to W9UCL, and Ed said he would be laid up for some time.

With no further business at hand, Chairman WB9ICH called for a motion to adjourn. A motion was made and seconded (K9FHI/W9YCV) to adjourn. Motion carried and Chairman WB9ICH adjourned the meeting at 1914Z, December 12, 1993.

*Respectfully Submitted,
Art Evans, KA9KLZ
WNA Secretary*

The next WNA meeting has been tentatively scheduled for 20 March 1994. It will probably be an on-the-air meeting held at 1830Z on 3985 kHz.

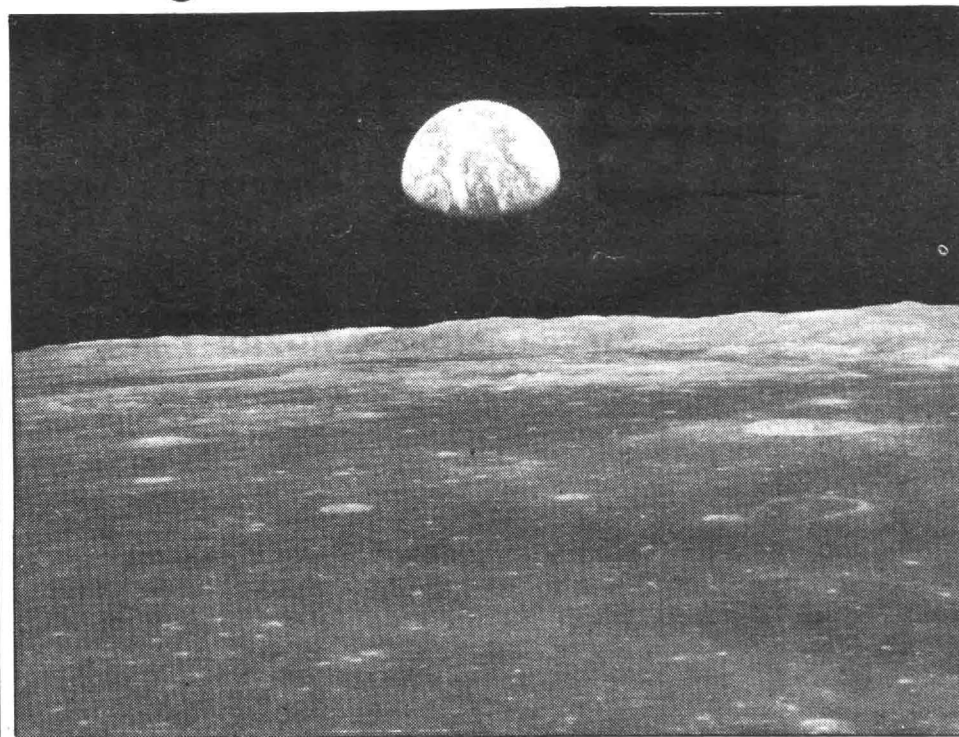
WNA TREASURER'S REPORT

December 13, 1993

	Income	Expenses	Balance
Balance on hand, October 1, 1993			\$74.61
Secretary needs		\$11.87	\$62.74
Sec'y of State, Wisconsin			
Annual Fee		\$10.00	\$52.74
BSSS Renewals (2)	\$19.00		\$71.74
BSSS		\$12.80	\$58.94
Balance on hand, December 13, 1993			\$58.94

- Submitted, Jim Merrell, W9AYK, WNA Treasurer

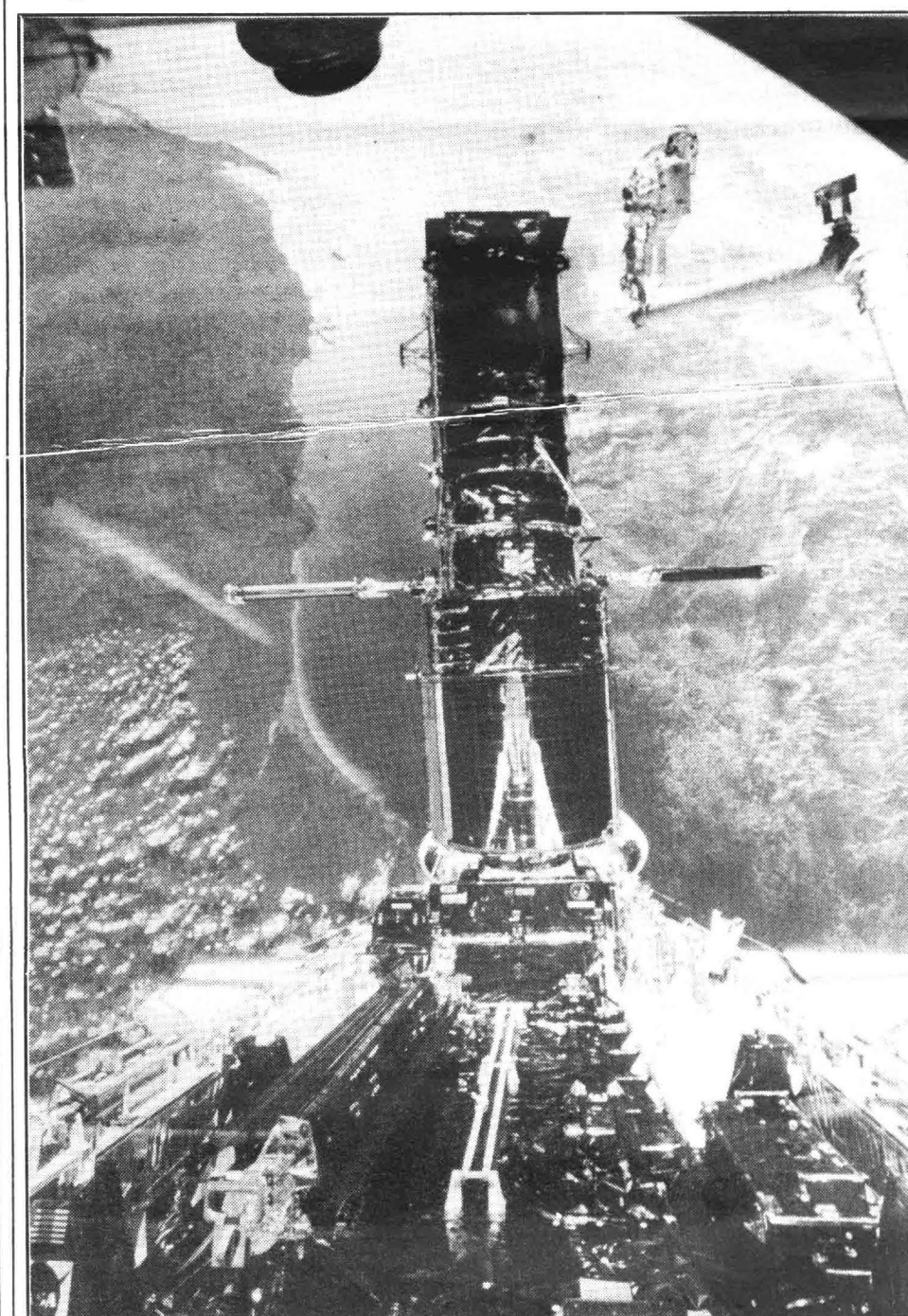
Putting Earth in Proper Perspective



This view of earthrise was taken in lunar orbit during the first manned landing mission to the moon (Apollo 11) in July, 1969. The 25th anniversary of that landing will be observed this year. In the photo, Earth, about 235,000 miles away, stands out in stark contrast to the blackness of space as a colorful, partly cloud-shrouded planet. That contrast is even more sharp when compared to the barren lunar landscape below. Twelve men, all from the United States, have walked on and explored the moon's surface. The lunar missions ended with Apollo 17, after Congress shut off funding; the flights had been scheduled to go to Apollo 21 or 22. Apollo 13, a landing mission, had a near-disaster when, enroute to the moon, a tank exploded. No landing was possible, and the craft did a "slingshot" around the moon and returned the three astronauts to a safe splashdown in the Pacific Ocean. To conserve power, the three spent nearly the entire balance of the journey after the explosion in the two-man LEM (Lunar Excursion Module) at about 40 degrees F.

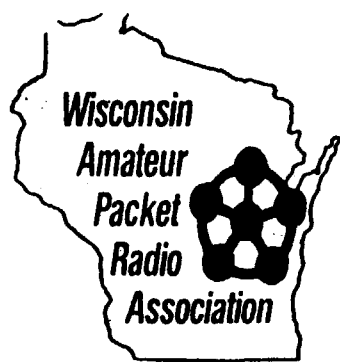
- NASA photo

Your Space Telescope's not Working Right? Call the NASA Fix-It Crew!



A NASA repair mission made a "house call" in December, 1993, to correct a number of troublesome problems with the Hubble Space Telescope (HST). Here, on December 9, orbiting earth at an altitude of 325 nautical miles perched atop a foot restraint on shuttle Endeavour's Remote Manipulator System (RMS), astronauts F. Story Musgrave (top) and Jeffrey A. Hoffman wrap up the final of five STS-61 EVAs (Extravehicular Activities). The west coast of Australia forms the backdrop for this 35mm frame.

- NASA photo



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Ted Heilmann, N9LLT
921 8th Ave., Grafton, WI 53024

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

Hello WAPR members...

The Following is a list of current members as of DEC. 24, 1993.

Please DO NOT delete this list if you don't find yourself listed and feel that you should already be on this list. Contact me instead. There are other members who may be checking this list for the same reason — to see if they are listed.

This membership list is regularly updated. If you recently sent in a membership application, but don't find yourself, wait for the next update. You can also contact me at the following packet address:

N9LLT @ WB9TYT.#MKE.WI.USA.NOAM

Membership dues are \$15.00 for the membership period. Membership runs from July 1 thru June 30 each year. A subscription to Badger State Smoke Signals is included and runs concurrently with your membership. Please note that dues are the same with or without Smoke Signals and all memberships expire on June 30th. each year and should be renewed before June 30th. so that your subscription to Smoke Signals doesn't lapse. Also, dues are not pro-rated. That means that if you join in June, July, October, or even in May, dues are still \$15.00 and your membership needs to be renewed by June 30th.. So, if you're thinking of joining, sooner is really better than later.

Thanks,

Ted Heilmann - WAPR Treasurer

Editor note: The following list is sorted by state/city.

CALL	NAME	CITY	STATE
*****	*****	*****	*****
W9ZGS	Verne Buland	Grayslake	IL
W9AZW	John Lindstrom	Wildwood	IL
WQJDC	Aurthur Osborn	LaCrescent	MN
NOPDD	Robert Stark, Sr.	Winona	MN
N9GHZ	Michael Schoenfuss	Abbotsford	WI
KA9LAQ	Michael Pagel	Amherst	WI
KF9MO	Greg Geiger	Antigo	WI
K9OQO	James Sheetz	Appleton	WI
KB9AMY	Jack Schluneger	Ashland	WI
W9QMD	Fred Eltzsch	Belgium	WI
WA9JTX	James Opdyke	Beloit	WI
WK9K	Peter Bayne	Blanchardville	WI
K9UML	Robert Willett	Brookfield	WI
NX9K	Duane Brummel	Brooklyn	WI
N9UUR	Gary Bargholz	Brown Deer	WI
W9BTN	Sandy Wirth	Cedarburg	WI
W9MP	Michael Persson	Chetek	WI
W9NNS	Fr. Bill Jablonske	Chippewa Falls	WI
N9KUD	Jim Brinza	Cudahy	WI
KE9LZ	Steve McDonough	De Pere	WI
N9BWS	Alan Binkelman	Dousman	WI
WB9NTO	Stephen Fisher	Durand	WI
N9QXG	Terry Kortness	Eau Claire	WI
N9RSU	Leroy Dick, Sr.	Eau Claire	WI
W9BUG	R.L. Knutson	Eau Claire	WI
W9MEO	Lowell Riley	Eau Claire	WI
WA9BZU	Wilfred Velie	Eau Claire	WI
N9LOH	Steven Erskine	Elkhorn	WI
K9GCF	Leon Rediske	Franklin	WI
N9SBA	Gary Bares	Fredonia	WI
KA9QKD	Thomas Nieling	Fremont	WI
N9TD	Arthur Kratz	Friendship	WI
K9TWE	Dan Lagerman	Glendale	WI
N9LLT	Ted Heilmann	Grafton	WI
N9CFN	Ron Nelson	Green Bay	WI
W9PHF	Ray Greisinger	Green Bay	WI
W9YCV	Lester Peterson	Greenfield	WI
K9MLD	Joel Eschmann	Hartford	WI
WB9GBG	David Chroninger	Iola	WI
WB9BVB	Larry Puza	Jackson	WI

K9FHI	Roy Pedersen	Juneau	WI
K9DHR	Adrian Van Der Burgt	Kaukauna	WI
KB9DMV	Timothy Mohr	Kenosha	WI
W9HR	Emmet Algiers	Kenosha	WI
WA9TOZ	Charles Skooglun	Lodi	WI
WB9UQO	Robert Warner	Lodi	WI
WD9ESU	Larry Shields	Lodi	WI
N9FHD	Harv Nelson	Madison	WI
N9UDL	Tom Landmann	Madison	WI
W09U	Tim Czerwonka	Madison	WI
KB9GPJ	Guy Boucher	Marshfield	WI
K9CEU	James Lopas	Menasha	WI
WB9SMM	John Leekley	Menomonee Falls	WI
WJ9L	S.E.W.F.A.R.S.	Menomonee Falls	WI
K9PIQ	Thomas Rehm	Mequon	WI
KE9KF	Gary Cohen	Mequon	WI
N9FMR	Richard Waedekin	Mequon	WI
WA9JOB	Nels Harvey	Mequon	WI
WB9RQR	Stan Kaplan	Mequon	WI
K9BED	Ralph Storm	Milwaukee	WI
KB9IFF	Mary Adams	Milwaukee	WI
KF9QD	Nels Friis	Milwaukee	WI
N9GNQ	Charles Chenoweth	Milwaukee	WI
N9LXP	David Dropp	Milwaukee	WI
WB9TYT	Dan Bolander	Milwaukee	WI
WK9N	James Noonan III	Milwaukee	WI
KA9JAC	Robert Gedemer	Neenah	WI
W9FBC	Maurice Mead	Neenah	WI
KA9WKF	Jim Noonan, Jr.	New Berlin	WI
N9PIW	Richard Weinberger	N.Fond Du Lac	WI
AA9AW	Walter Altus	Onalaska	WI
NI9X	Clair Reid	Onalaska	WI
W9LZQ	Kent Helman	Onalaska	WI
N9GDY	Harry Hartmann	Oshkosh	WI
KA9EOK	Robert Martin	Park Falls	WI
AC9G	Dwight Simpson	Phillips	WI
N9BQM	Joel Papke	Pittsville	WI
W9IHW	Gustave Bonow	Port Edwards	WI
WA9KFR	Walter Stasiowski	Port Washington	WI
K9RRS*	Bruce Zabler	Racine	WI
WB9RGO	Lloyd Gorsiski	Racine	WI
WB9ZHQ	Alan Gudbaur	Racine	WI
W9ZBD	William Schroeder	Rhineland	WI
WB9ZRE	Steve Loeffler	Ripon	WI
KC9NW	Rich Maier	Schofield	WI
WB9GTX	Jack Douville	Sheboygan	WI
N9PHS	Wesley Jones	Shell Lake	WI
KA9ETH	John Jorenby	Sparta	WI
KB9DFE	Steven Miller	Spooner	WI
WB9RBD	Jim Broulette	Spooner	WI
N9NTB	Duane Brophy	Sun Prairie	WI
N9OVV	Jeffrey Schoh	Tigerton	WI
KA9ZZK	Richard Koebernick	Tomah	WI
KA9BHL	Mike Hamman	Tomahawk	WI
N9IDH	Jim Clark	Waukesha	WI
N9LGD	John Wesimayer	Waukesha	WI
N9NRI	Howard Buss	Waukesha	WI
N9JFK	John Hewitt	Waupaca	WI
W9NJY	Andy Catanzaro	Wauwatosa	WI
N9MYK	Richard Sell	Wauwatosa	WI
N9PPX	Chris Wineinger	West Allis	WI
WB9AZH	Rodney Kleist	West Allis	WI
W9UNR	David Barrow, III	West Bend	WI
WD9HLG	James Fulton	Wis. Rapids	WI
KF9MG	Jeremy Spranger	Wittenberg	WI
NO9K	Dan Fuhrman	Wittenberg	WI
K9AEG	Dennis Spranger	Wittenburg	WI

* = denotes membership thru 7/95

Total of 107 Members.

THANK YOU for your continued support !!

THE ARRL OUTGOING QSL SERVICE

Note: The ARRL QSL Service should not be used to exchange QSL cards within the 48 contiguous states.

One of the greatest bargains of League membership is being able to use the ARRL Outgo-

ing QSL Service to conveniently send your DX QSL cards overseas to foreign QSL Bureaus. Your ticket for using this service is your QST address label and just \$2.00 per pound. For those not quite so DX active (sending 10 cards or less), enclose \$1.00. You can't even get a deal like that at your local warehouse supermarket! And the potential savings over the substantial cost of individual QSLing is equal to many times the price of your annual dues. Your cards are sorted promptly by the Outgoing Service staff, and cards are on their way overseas usually within a week of arrival at ARRL Hq. Approximately two million cards are handled by the Service each year!

QSL cards are shipped to QSL Bureaus throughout the world, which are typically maintained by the national Amateur Radio Society of each county. While no cards are sent to individuals or individual QSL managers, keep in mind that what you might lose in speed is more than made up in the convenience and savings of not having to address and mail QSL cards separately. (In the case of DXpeditions and/or active DX stations that use U.S. QSL managers, a better approach is to QSL directly to the QSL manager. The various DX newsletters, the W6GO QSL manager directory, and other publications, are good sources of up-to-date QSL manager information.)

As postage costs become increasingly prohibitive, don't go broke before you're even halfway towards making DXCC. There's a better and cheaper way — "QSL VIA BUREAU" through the ARRL outgoing QSL Service!

How To Use The ARRL Outgoing QSL Service

1) Presort your DX QSLs alphabetically by parent call-sign prefix (AP, C6, CE, DL, ES, F, G, JA, LU, PY, YL, 5N, 9Y and so on). NOTE: Some countries have a parent prefix and use additional prefixes, i.e., U (parent prefix) = R, 4K,.... When sorting countries that have multiple prefixes, keep that country's prefixes grouped together in your alphabetical stack. Addresses are not required. DO NOT separate the country prefix by use of paper clips, rubber bands, slips of paper or envelopes.

2) Enclose the address label from your current copy of QST. The label shows that you are a current ARRL member.

3) Enclose payment of \$2.00 per each pound of cards — approximately 150 cards weigh one pound. A package of ten (10) cards or less costs only \$1.00. Please pay by check (or money order) and write your call sign on the check. Send "green stamps" (cash) at your own risk. DON'T send postage stamps or IRCs.

4) Include only the cards, address label and check in the package. Wrap the package securely and address it to the ARRL Outgoing QSL Service, 225 Main Street, Newington CT 06111.

5) Family members may also use the service by enclosing their QSLs with those of the primary member. Include the appropriate fee with each individual's cards and indicate "family membership" on the primary member's QST address label.

6) Blind members who do not receive QST need only include the appropriate fee along with a note indicating the cards are from a blind member.

7) ARRL affiliated-club stations may use the service when submitting club QSLs by indicating the club name. Club secretaries should check

affiliation papers to ensure that affiliation is current. In addition to sending club station QSLs through this service, affiliated clubs may also "pool" their members' individual QSL cards to effect an even greater savings. Each club member using this service must also be a League member. Cards should be sorted "en masse" by prefix, and a QST label enclosed for each ARRL member.

Recommended QSL-Card Dimensions

The efficient operation of the worldwide system of QSL Bureau requires that cards be easy to handle and sort. Cards of unusual dimensions, either much larger or much smaller than normal, slow the work of the Bureaus, most of which is done by unpaid volunteers. A review of the cards received by the ARRL Outgoing QSL Service indicates that most fall in the following range: Height = 2-3/4 to 4-1/4 in. (70 to 110 mm), Width = 4-3/4 to 6-1/4 in. (120 to 160 mm). Cards in this range can be easily sorted, stacked and packaged. Cards outside this range create problems; in particular, the larger cards often cannot be handled without folding or otherwise damaging them. In the interest of efficient operation of the worldwide QSL Bureau system, it is recommended that cards entering the system be limited to the range of dimensions given. [Note: IARU Region 2 has suggested the following dimensions as optimum: Height 3 1/2 in. (90 mm), Width 5 1/2 in. (140 mm).]

Countries Not Served By The Outgoing QSL Service

Approximately 260 DXCC countries are served by the ARRL Outgoing QSL Service, as detailed in the ARRL DXCC Countries List. This includes nearly every active country. As noted previously, cards are forwarded from the ARRL Outgoing Service to a counterpart Bureau in each of these countries. In some cases, there is no Incoming Bureau in a particular country and cards therefore cannot be forwarded. However, QSL cards can be forwarded to a QSL manager, i.e.; 3C1MB via (EA7KF). For this reason, the ARRL Outgoing Service cannot forward cards to the following countries:

A5 Bhutan	V3 Belize
A6 United Arab Emirates	V4 (VP2K) St. Kitts & Nevis
A7 Qatar	V6 (KC6) Micronesia
C9 Mozambique	VP2E Anguilla
D2 Angola	VP2M Montserrat
EP Iran	VR6 Pitcairn Island
ET Ethiopia	XT Burkina Faso
J5 Guinea-Bissau	XU Kampuchea
KC4 U.S. bases in Antarctica	XW Laos
KC6 Belau	XX9 Macao
KH0 Mariana Is.	XZ (1Z) Myanmar (Burma)
KH1 Baker and Howland Is.	YA Afghanistan
KH4 Midway I.	YI Iraq
KH5 Palmyra and Jarvis Is.	ZD7 St. Helena
KH7 Kure I.	ZD9 Tristan da Cunha
KH8 Am. Samoa	ZK3 Tokelau
KH9 Wake I.	300 Pagalu I.
KP1 Navassa I.	3C Equatorial Guinea
KP5 Desecheo I.	3V Tunisia
OD Lebanon	3W, XV Vietnam
P5 North Korea	3X Guinea
S2 Bangladesh	5A Libya
S7 Seychelles	5H Tanzania
T2 Tuvalu	5R Madagascar
T3 Kiribati	5T Mauritania
T5 Somalia	5U Niger
TJ Cameroon	5X Uganda
TL Central African Republic	70,4W Yemen
TN Congo	7Q Malawi
TT Chad	8Q Maldives
TY Benin	9G Ghana
TZ Mali	9N Nepal
	9Q Zaire
	9U Burundi
	9X Rwanda

NOTE: SWL cards can be forwarded through the QSL Service.

NOTE: We no longer hold cards for countries with no Incoming Bureau. Only cards indicating a QSL manager for a station in these particular countries will be forwarded.

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959

The December 16th meeting of the Yellow Thunder Amateur Radio Club, Inc. was a Christmas party held at the Old Highway Inn in West Baraboo on Friday, December 10th. There was no formal meeting.

A big thanks is given to Mark Snyder, KF9RG, for making the necessary arrangements for this year's party. Twenty four club and family members partook in the buffet dinner. It was a nice evening and a good dinner.

Club member can expect to receive a letter in the mail which will include a renewal appli-

cation for 1994 membership. Dues are due at the January 18th meeting..

Sincerely,
Raymond J Matlosz, N9MLZ, Secretary

The next meeting will be held on Tuesday, January 14, 1994 at the Baraboo Civic Center at 7:30 p.m. Peter Sweeney, WD9JIB, Sauk County Emergency Coordinator will give a presentation following the business meeting.

THE TEST POINT continued from page 4

MINNESOTA

01/15, Cottage Grove, 612-459-8678, David Harrell
02/11, Cottage Grove, 612-459-8678, David Harrell
02/12, N Branch, 612-444-9814, Bradley Fern
02/19, Cottage Grove, 612-459-8678, David Harrell
03/19, Cottage Grove, 612-459-8678, David Harrell
04/09, N Branch, 612-444-9814, Bradley Fern
04/16, Cottage Grove, 612-459-8678, David Harrell
05/21, Cottage Grove, 612-459-8678, David Harrell
06/11, N Branch, 612-444-9814, Bradley Fern
06/18, Cottage Grove, 612-459-8678, David Harrell
08/13, N Branch, 612-444-9814, Bradley Fern
08/20, Cottage Grove, 612-459-8678, David Harrell
09/17, Cottage Grove, 612-459-8678, David Harrell
10/08, N Branch, 612-444-9814, Bradley Fern
10/15, Cottage Grove, 612-459-8678, David Harrell
11/19, Cottage Grove, 612-459-8678, David Harrell
12/10, N Branch, 612-444-9814, Bradley Fern
12/17, Cottage Grove, 612-459-8678, David Harrell

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

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FOR SALE: Over the years I have accumulated a lot of radio components and instrumentation, since I was one that designed and built by own equipment (including military hardware as a design specialist with McDonnell Douglas) Now at the end of my career, and already retired I would like to get rid of this equipment. All in good working condition (some of them brand new). They are as follows:

10 New Jennings vacuum variable capacitors, 3-105 pF, 7500 Volt; \$100.00 each.

New Jennings vacuum variable capacitor, 4-465 pF, 5000 volt; \$200.00.

Tektronics 545B oscilloscope with cart and 2 plug-ins; \$150.00.

HP model 608B signal generator 10 to 500 MHz.; \$150.00.

New Simpson 260 series 7P (overload protected) multimeter; \$100.00.

Lambda model LH 125 FM, regulated power supply, 40V @ 3A; \$150.00.

Hammarlund HQ-160 general coverage receiver with manual; \$200.00.

New Beckman, Model FG2 function generator

with manual; \$150.00.

HP model 3311A function generator with manual; \$150.00.

C-Itoh model 8510A dot matrix printer with manual; \$150.00.

General Electric wattmeter type AP-11 (250 watts); \$200.

RCA high voltage power transformer, 3600 VCT, 400 ma.; \$75.00

Apple II C, including 2 drives and monitor; \$350.00

New Keithley digital multimeter; \$150.00.

I am not sure how appropriate the prices listed are. If you believe the prices are unreasonable please feel free to make an offer.

Armando H Luna, K8OED(ex-OA4BL), 1935 Lone Oak Circle, W., Brookfield, WI 53045. (414) 782-0384.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

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2. Write a story using alphabet soup.
3. Read the dictionary upside down, and look for secret messages.
4. Drive to work in reverse.
5. Leaf through the National Geographic, and draw underwear on the natives.
6. Forget the diet center and send your self a candy gram.

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HAMFEST INFO:
Dan Vanevenhoven, N9LVS
2410 E. Newberry Ct.
Appleton, WI 54915
414-739-5101

EXAM INFO:
Larry Siebers, KD9IA
414-788-3823

**Lakeshore Hamfest
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For more information, call:

Ron, WS9X: 314-793-4733 (Nights)
Red, N9GHE: 414-684-9097

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Radio Club, P.O. Box 3508, Peoria, IL 61612-3508 or telephone answering machine 309/685-6698.

CWRA SWAPFEST

Sunday, June 12, 1994 • 8 a.m. to 2 p.m.

UNIVERSITY CENTER, U.W. STEVENS POINT

Info: Art Wysocki, N9BCA 715-344-2984
3356 April Lane Stevens Point, WI 54481

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AMATEUR RADIO CLUB

**SWAPFEST
July 23, 1994**

Chippewa Falls Fairgrounds

Mike Ceraso, N9JMA 2432 Shafer Road
(715) 723-9205 Eau Claire, WI 54729

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Saturday, May 1, 1993

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Exams by Badger Examiners, c/o Gary Sharbuno,
5119 W. Willow Rd., Brown Deer, WI 53223
Swapfest sponsored by Ozaukee Radio Club
11448 N. Laguna Drive • Mequon, WI 53092

Kettle Moraine Radio Amateurs

SWAPFEST

Sunday, October 9, 1994

Waukesha County Expo Center

Info: KMRA Swapfest P.O. Box 411
Waukesha, WI 53187-0411

Northern Wisconsin Radio Club

AUCTION

February 22, 1994 • 7:00 p.m.

American Legion Post 53 • 634 Water Street
Eau Claire, WI

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Steve Hart, KA9OMC
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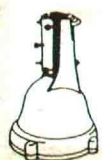
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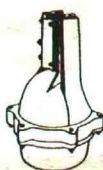
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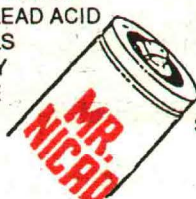
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